S
551.41
N11GGC
1995
Appendix A, Part 2

Appendix A

Data Summaries and Maps of the DEQ Wetland Characterization Sites

Part 2, Sites WET41 - WET80

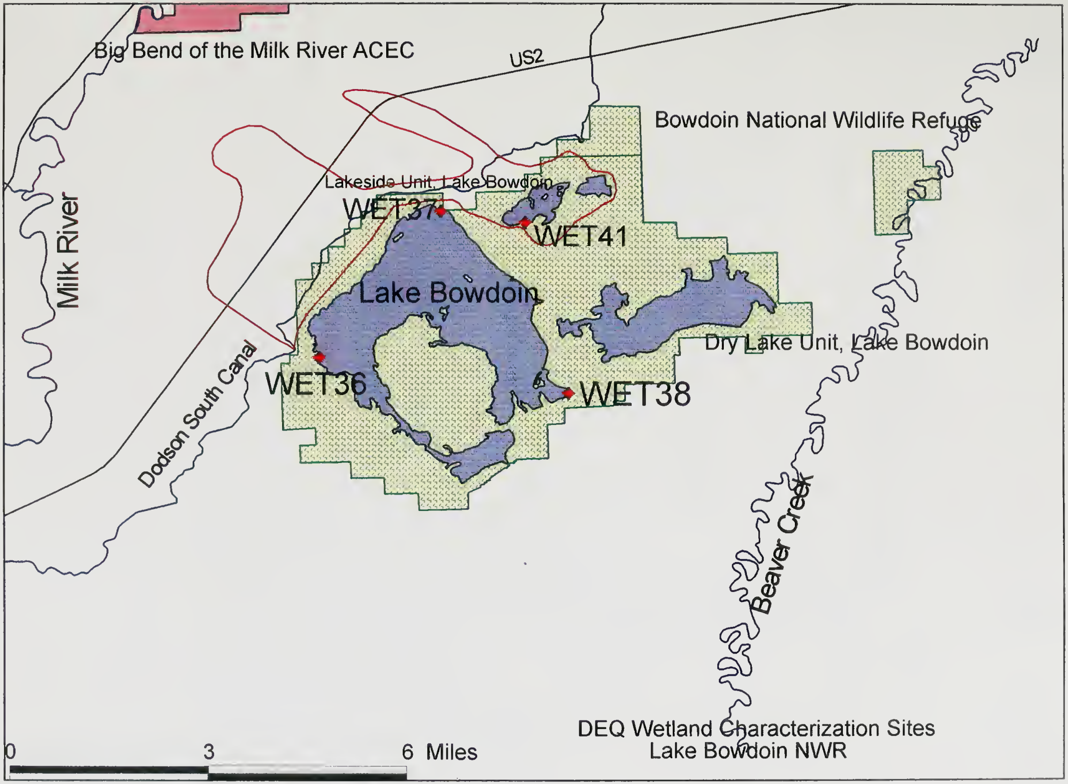
S
551.41
NHOGC
1995
Appendix A, Part 2

Appendix A

Data Summaries and Maps of the DEQ Wetland Characterization Sites

Part 2, Sites WET41 - WET80

MONTANA STATE LIBRARY
3 0864 0014 8943 7


Big Bend of the Milk River ACEC
US2
Bowdoin National Wildlife Refuge
Lakeside Unit, Lake Bowdoin
WET37
WET41
Milk River
Lake Bowdoin
Dry Lake Unit, Lake Bowdoin
Dodson South Canal
WET36
WET38
Beaver Creek
DEQ Wetland Characterization Sites
Lake Bowdoin NWR
0
3
6 Miles

Wetland: LAKESIDE WETLAND	Site Code: WET41
7.5 Minute Quad: LAKE BOWDOIN	Lat: 48 25 25 Long: 107 39 20

Mean Annual Precipitation in Inches:	11.00
Mean Annual Potential Evaporation (Penman) in Inches:	39.00
'Net Precipitation' in Inches:	-28.00

Site has a mapped surface inlet.

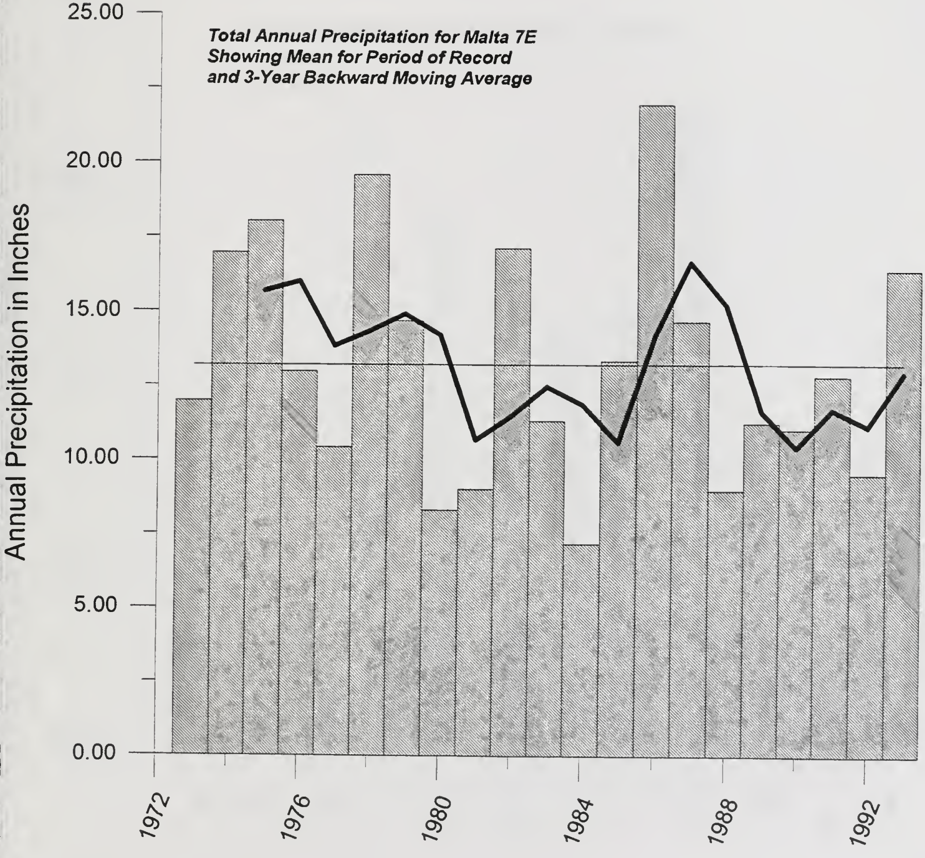
Site has a mapped surface outlet.

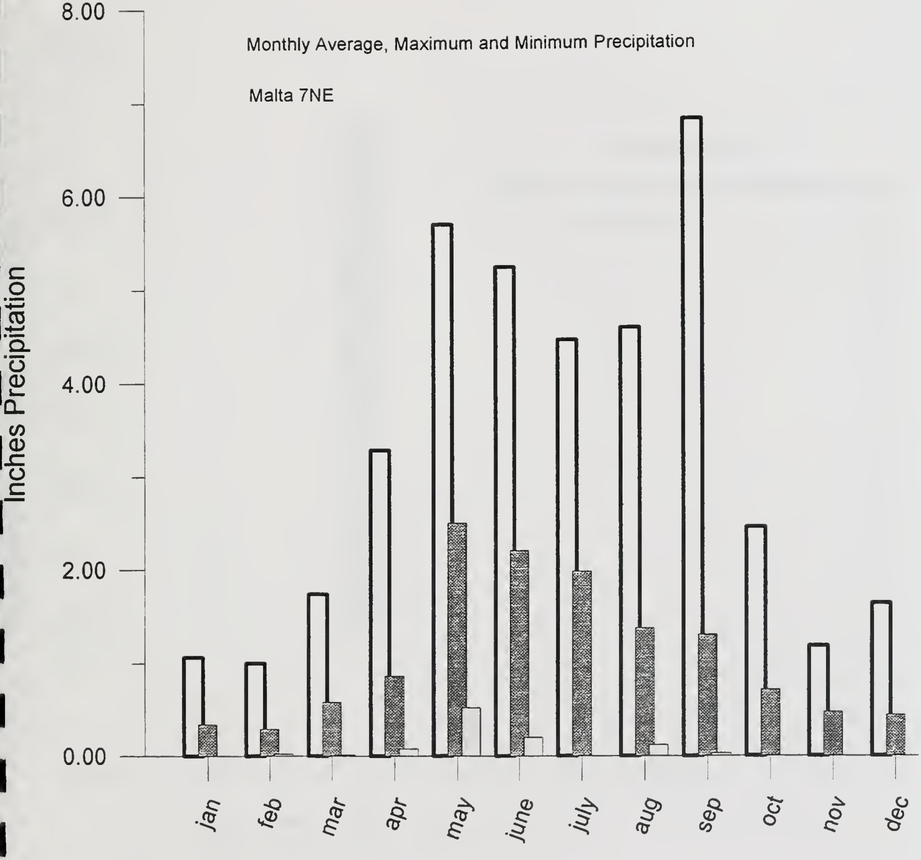
Site is not known to be artificially impounded.

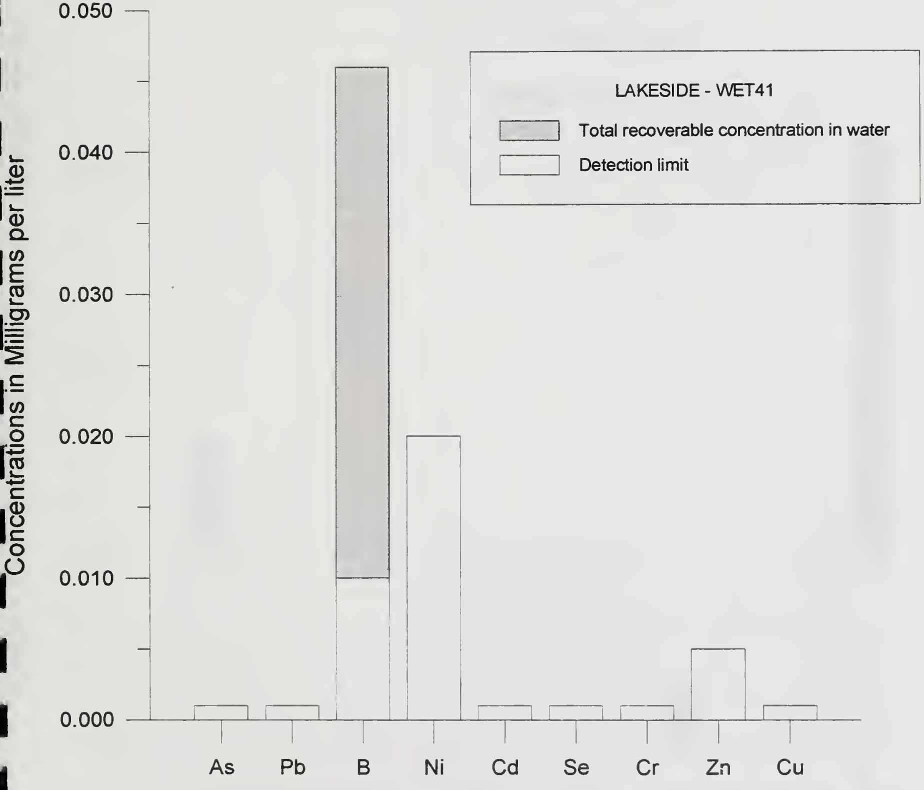
Site has significant water imports.

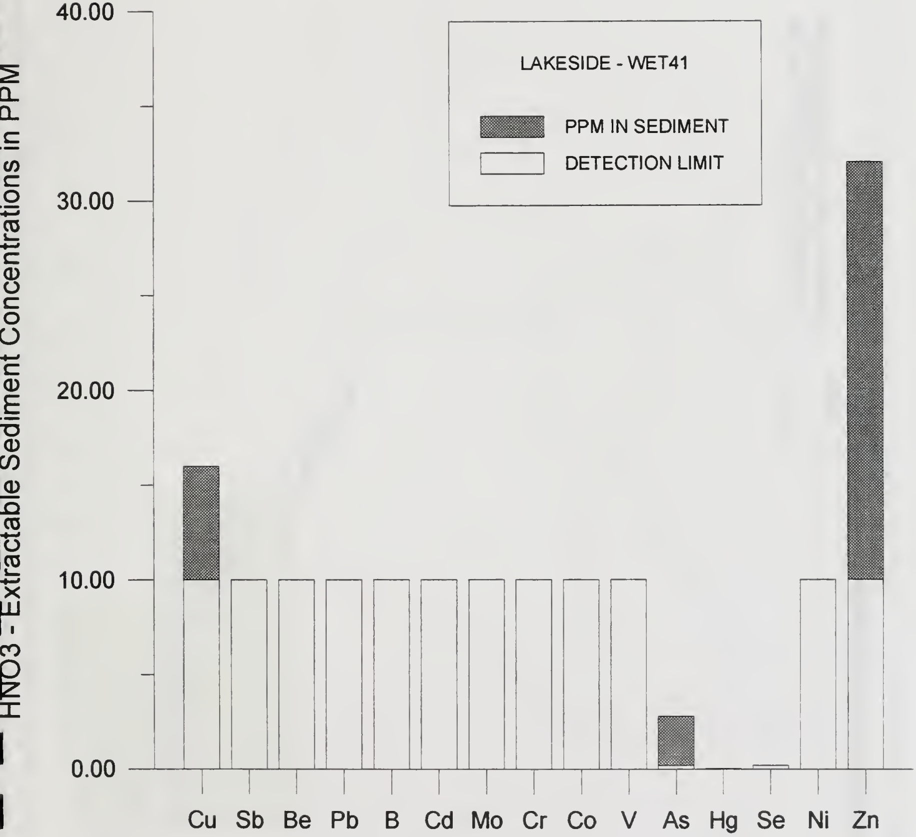
Mapped area of wetland:	194 acres
Area of contributing drainage basin:	5460 acres
Mapped elevation of wetland surface:	2226 ft
Maximum elevation within drainage basin:	2286 ft
Net relief of contributing basin:	60 ft

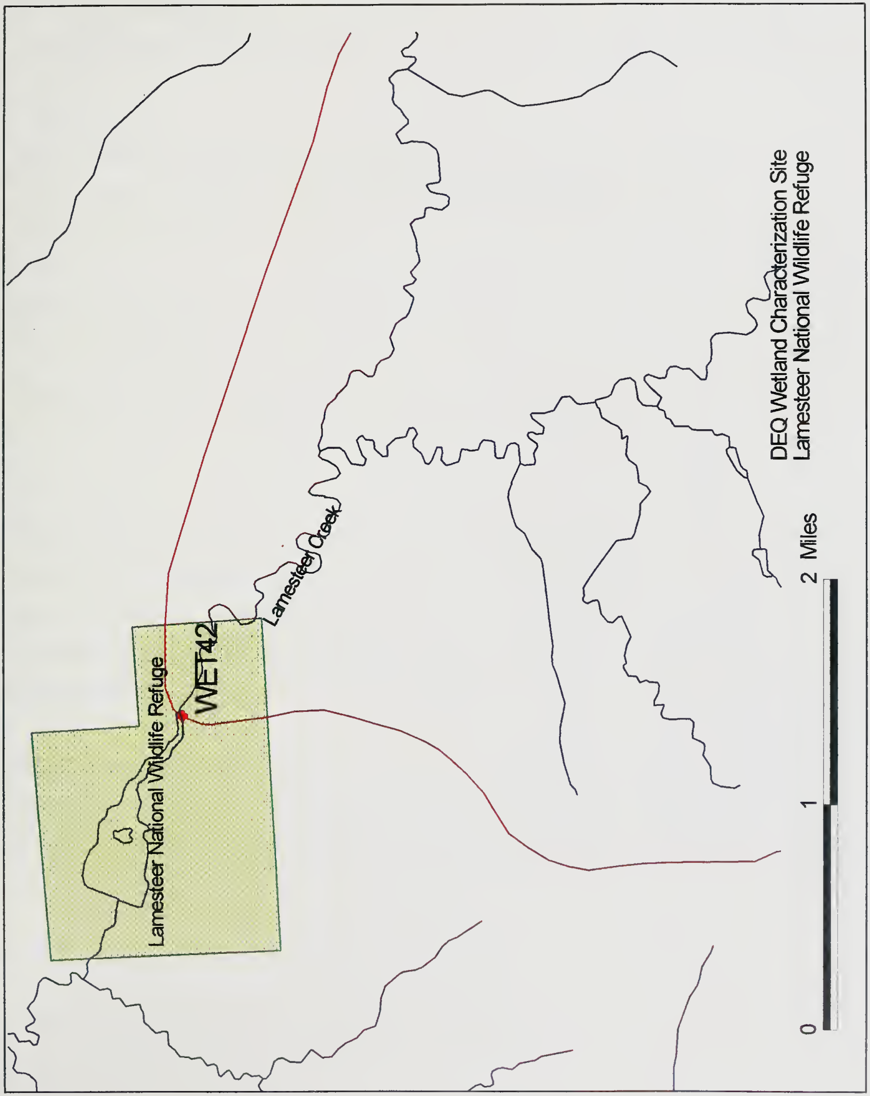
COE Hydrogeomorphic class:	FRINGE
Primary surficial geologic unit	110"LAC"
Primary bedrock geologic unit	211CLGG


Total Annual Precipitation for Malta 7E
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
25.00
20.00
15.00
10.00
5.00
0.00
1972
1976
1980
1984
1988
1992


Monthly Average, Maximum and Minimum Precipitation
Malta 7NE
Inches Precipitation
8.00
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


Concentrations in Milligrams per liter
0.050
0.040
0.030
0.020
0.010
0.000
LAKESIDE - WET41
Total recoverable concentration in water
Detection limit
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
40.00
30.00
20.00
10.00
0.00
LAKESIDE - WET41
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn


Lamesteer National Wildlife Refuge
WET42
Lamesteer Creek
DEQ Wetland Characterization Site
Lamesteer National Wildlife Refuge
0
1
2 Miles

Wetland: LAMESTEER NWR

Site Code: WET42

7.5 Minute Quad: RED TOP BUTTE

Lat: 46 47 30
Long: 104 8 40

Mean Annual Precipitation in Inches: 15.00

Mean Annual Potential Evaporation (Penman) in Inches: 38.00

'Net Precipitation' in Inches: -23.00

Site has a mapped surface inlet.

Site has a mapped surface outlet.

Site is artificially impounded.

Site does not have known significant water imports.

Mapped area of wetland: 60 acres

Area of contributing drainage basin: 17000 acres

Mapped elevation of wetland surface: 2883 ft

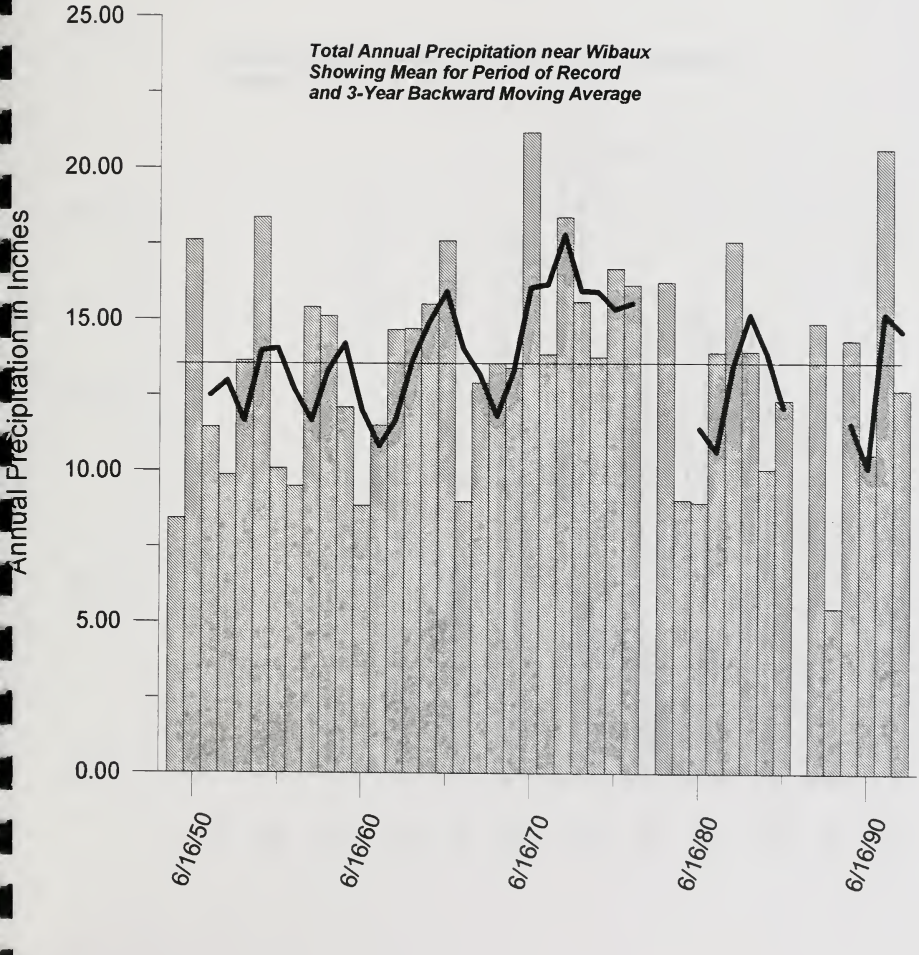
Maximum elevation within drainage basin: 3247 ft

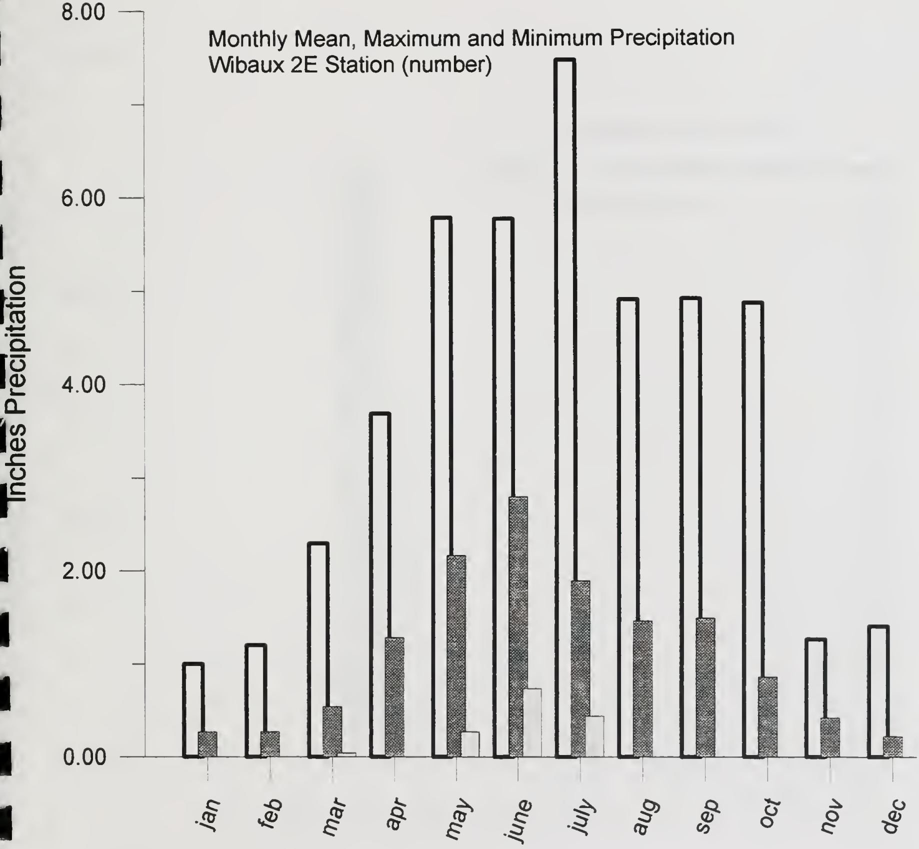
Net relief of contributing basin: 364 ft

COE Hydrogeomorphic class: FRINGE

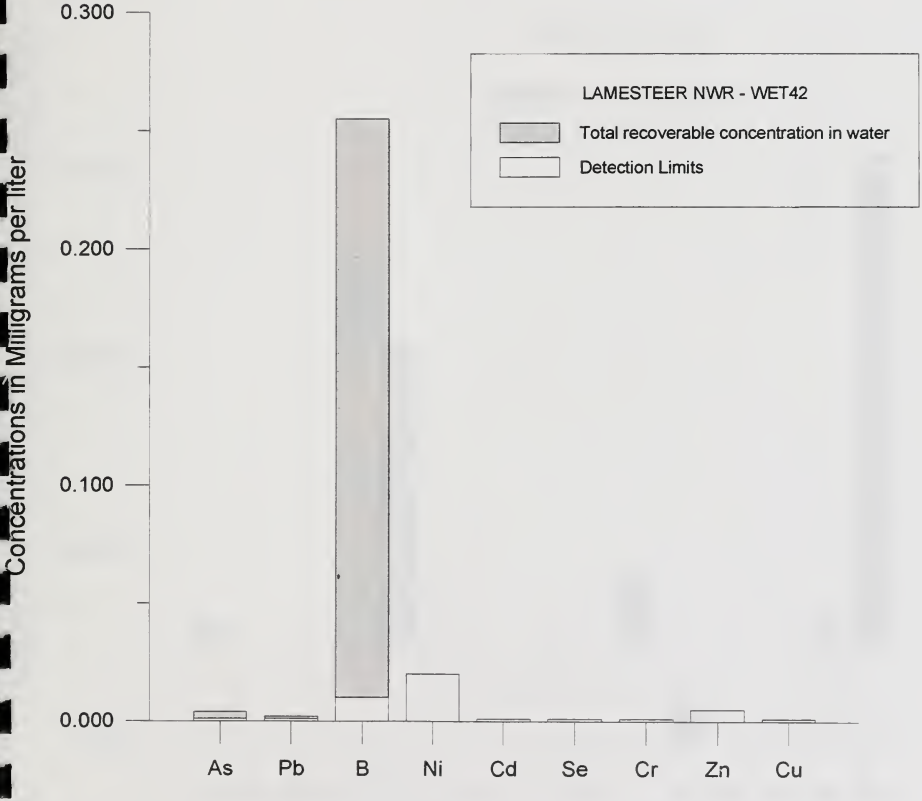
Primary surficial geologic unit 111"LAC"

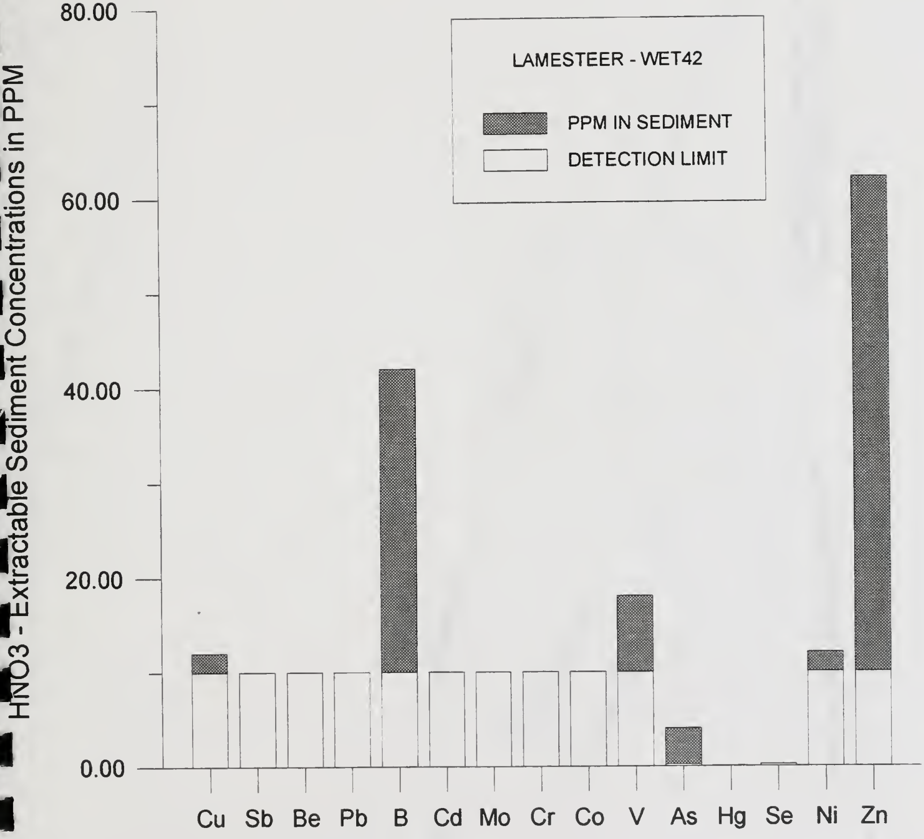
Primary bedrock geologic unit 125TGRV

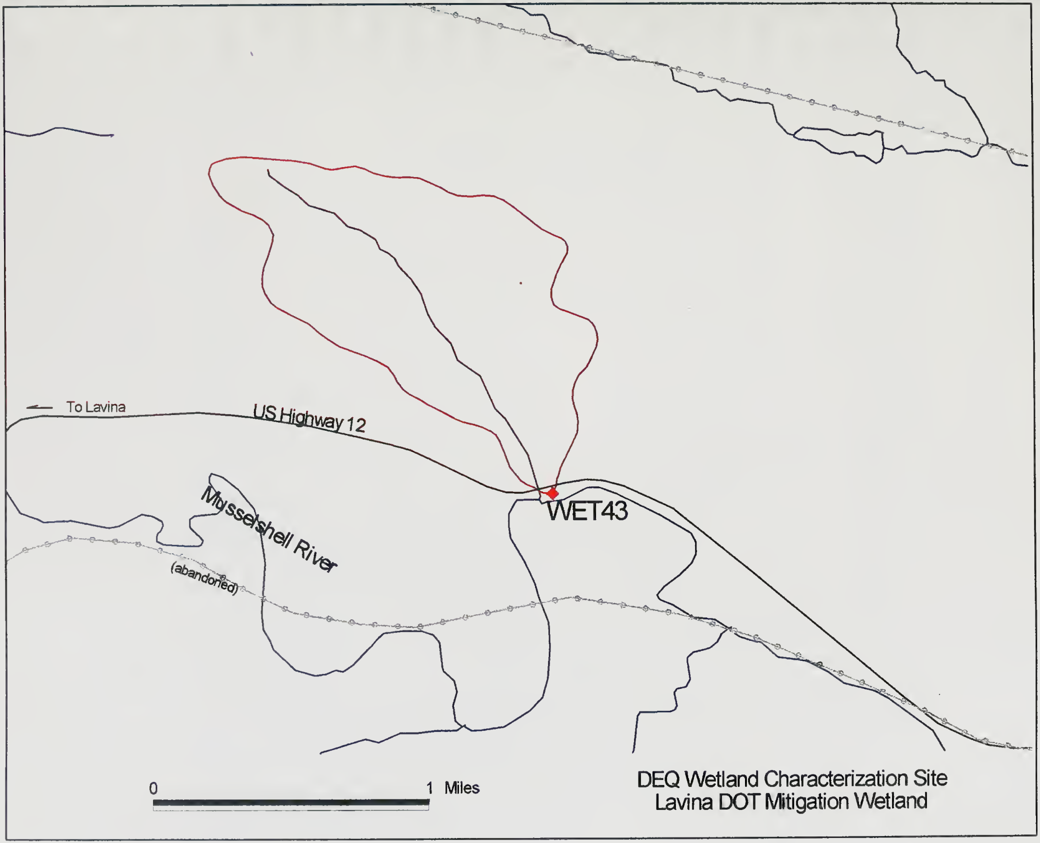

Total Annual Precipitation near Wibaux
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
25.00
20.00
15.00
10.00
5.00
0.00
6/16/50
6/16/60
6/16/70
6/16/80
6/16/90



Monthly Mean, Maximum and Minimum Precipitation
Wibaux 2E Station (number)


Concentrations in Milligrams per liter
0.300
0.200
0.100
0.000
LAMESTEER NWR - WET42
Total recoverable concentration in water
Detection Limits
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu

HNO3 - Extractable Sediment Concentrations in PPM
80.00
60.00
40.00
20.00
0.00
LAMESTEER - WET42
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Site
Lavina DOT Mitigation Wetland

Wetland: LAVINA DOT MITIGATION WETLAND

Site Code: WET43

7.5 Minute Quad: RYGATE EAST

Lat: 46 18 55
Long: 109 8 25

Mean Annual Precipitation in Inches: 13.00

Mean Annual Potential Evaporation (Penman) in Inches: 42.00

'Net Precipitation' in Inches: -29.00

Site has a mapped surface inlet.

Site does not have a mapped surface outlet.

Site is not known to be artificially impounded.

Site does not have known significant water imports.

Mapped area of wetland: 5 acres

Area of contributing drainage basin: 560 acres

Mapped elevation of wetland surface: 3560 ft

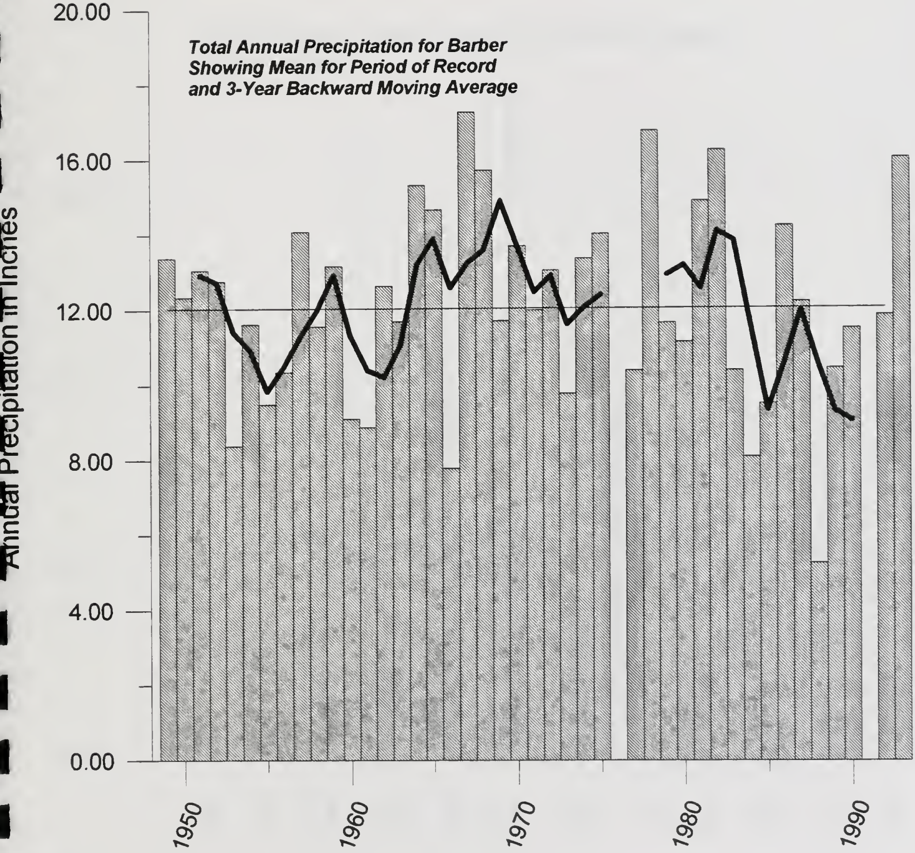
Maximum elevation within drainage basin: 3858 ft

Net relief of contributing basin: 298 ft

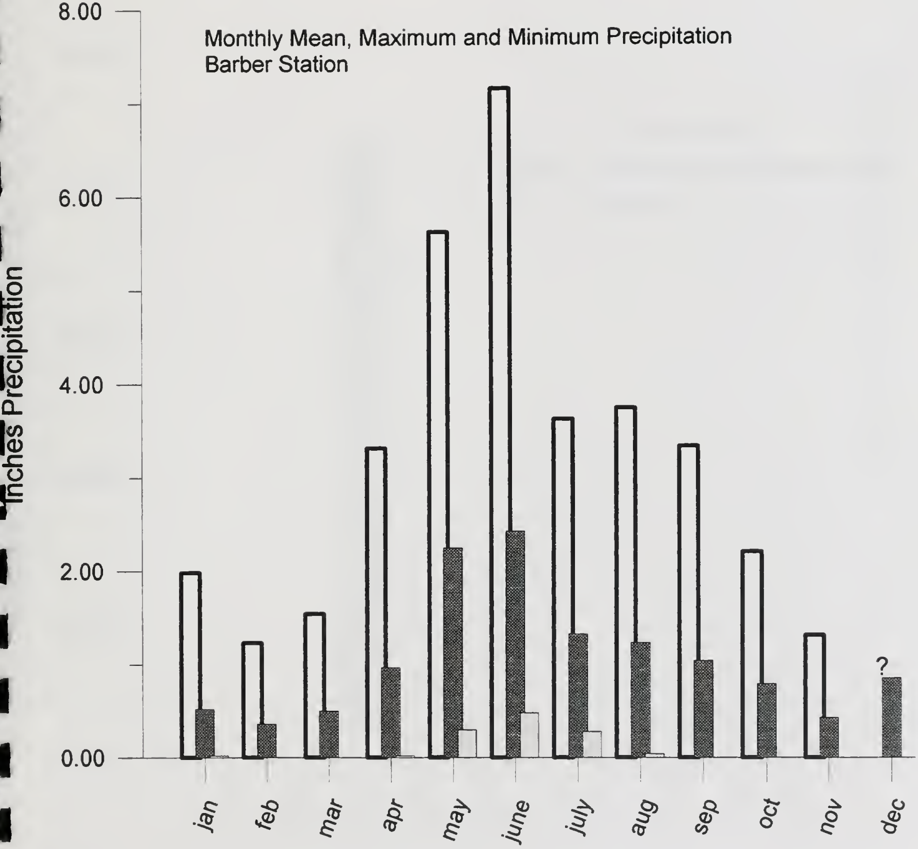
COE Hydrogeomorphic class: DEPRESSIONAL

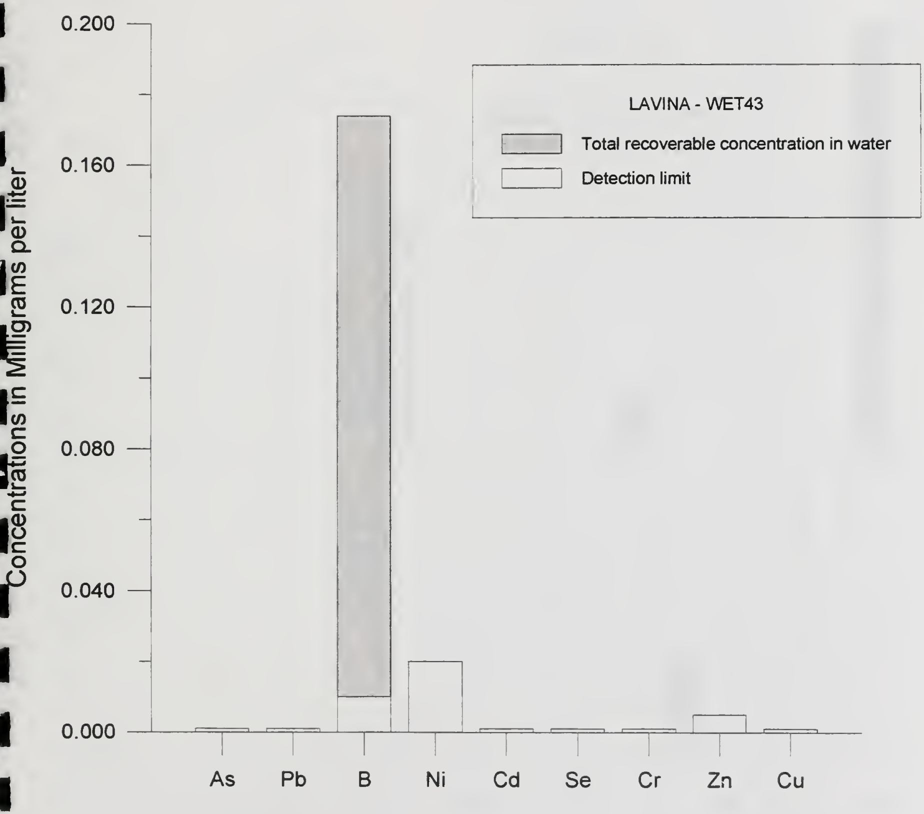
Primary surficial geologic unit 110ALVM

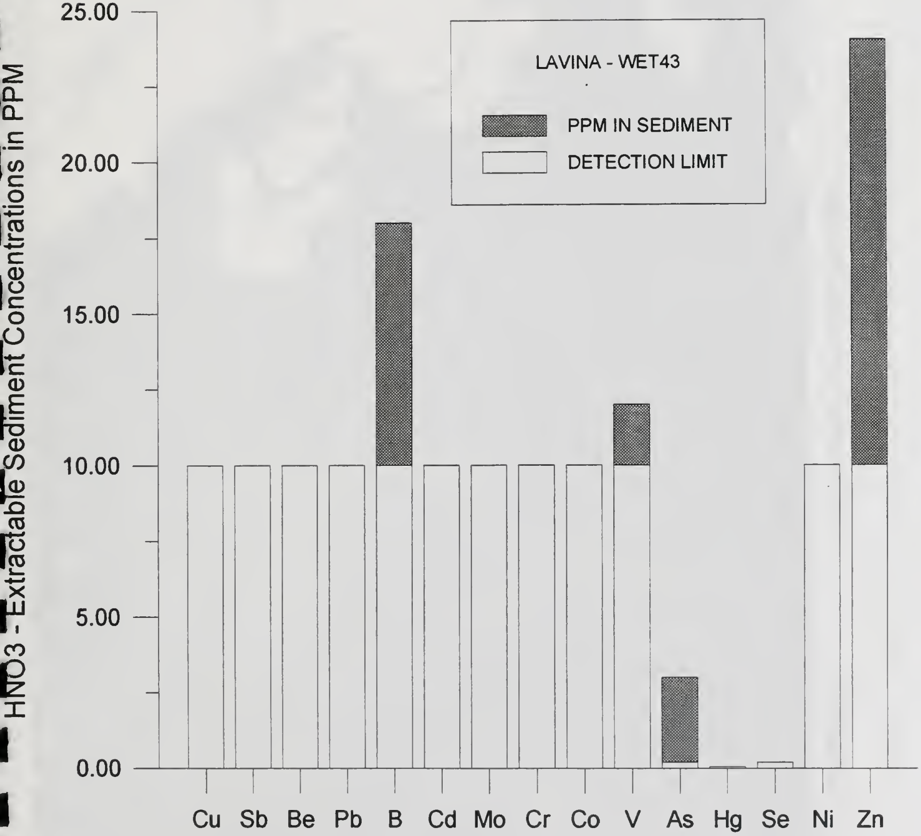
Primary bedrock geologic unit 211JDRV

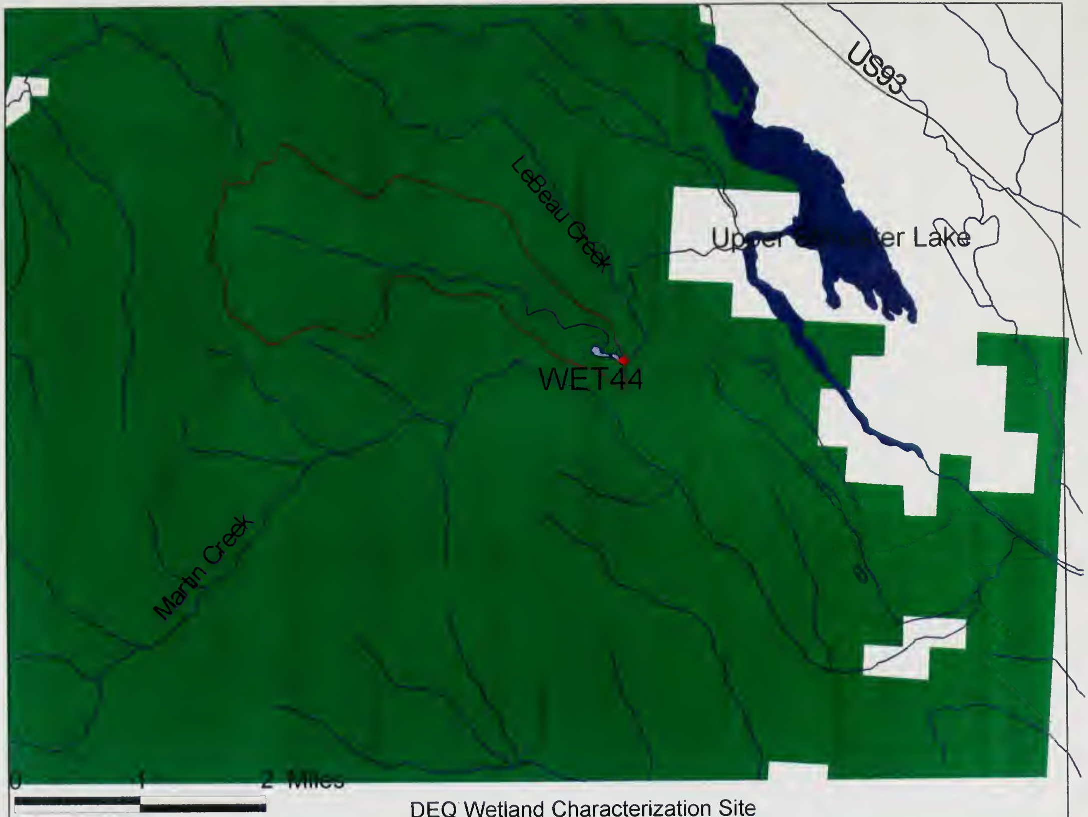

Total Annual Precipitation for Barber
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
20.00
16.00
12.00
8.00
4.00
0.00
1950
1960
1970
1980
1990

[illegible]


Monthly Mean, Maximum and Minimum Precipitation
Barber Station
Inches Precipitation
8.00
6.00
4.00
2.00
0.00
?
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


Concentrations in Milligrams per liter
0.200
0.160
0.120
0.080
0.040
0.000
LAVINA - WET43
Total recoverable concentration in water
Detection limit
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


LAVINA - WET43
PPM IN SEDIMENT
DETECTION LIMIT
HNO3 - Extractable Sediment Concentrations in PPM
25.00
20.00
15.00
10.00
5.00
0.00
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Site
LeBeau Creek South

Wetland: LEBEAU CREEK SOUTH WETLAND

Site Code: WET44

7.5 Minute Quad: RADNOR

Lat: 48 34 5
Long: 114 40 0

Mean Annual Precipitation in Inches: 25.00

Mean Annual Potential Evaporation (Penman) in Inches: 30.00

'Net Precipitation' in Inches: -5.00

Site has a mapped surface inlet.

Site has a mapped surface outlet.

Site is not known to be artificially impounded.

Site does not have known significant water imports.

Mapped area of wetland: 7 acres

Area of contributing drainage basin: 1840 acres

Mapped elevation of wetland surface: 3550 ft

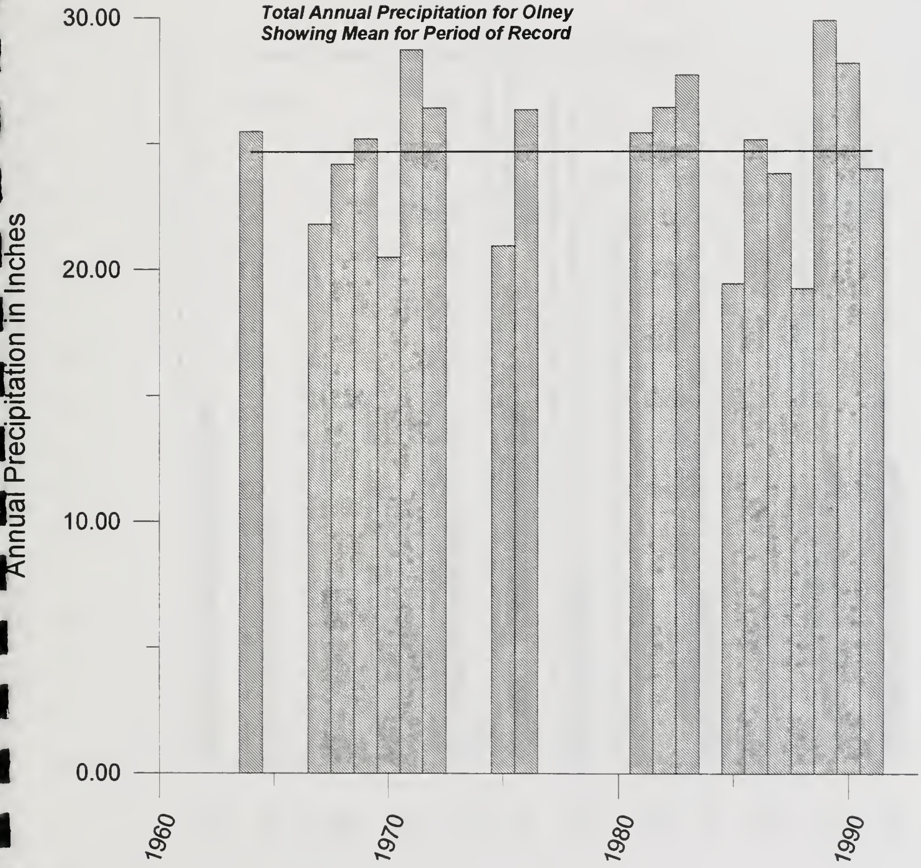
Maximum elevation within drainage basin: 5635 ft

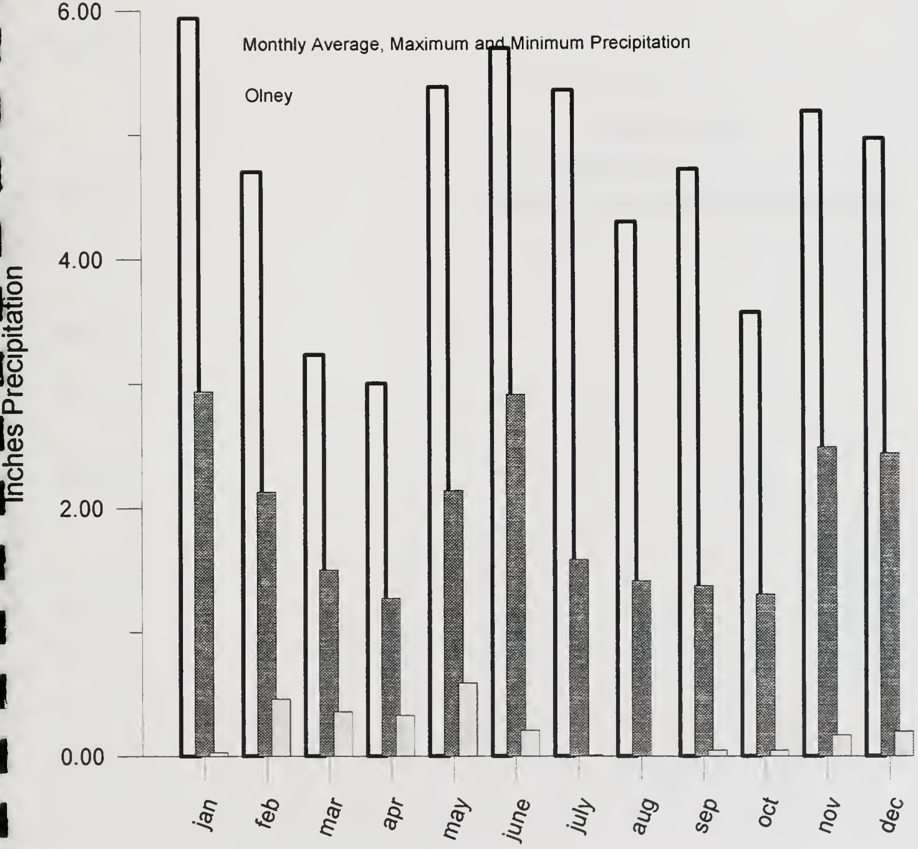
Net relief of contributing basin: 2085 ft

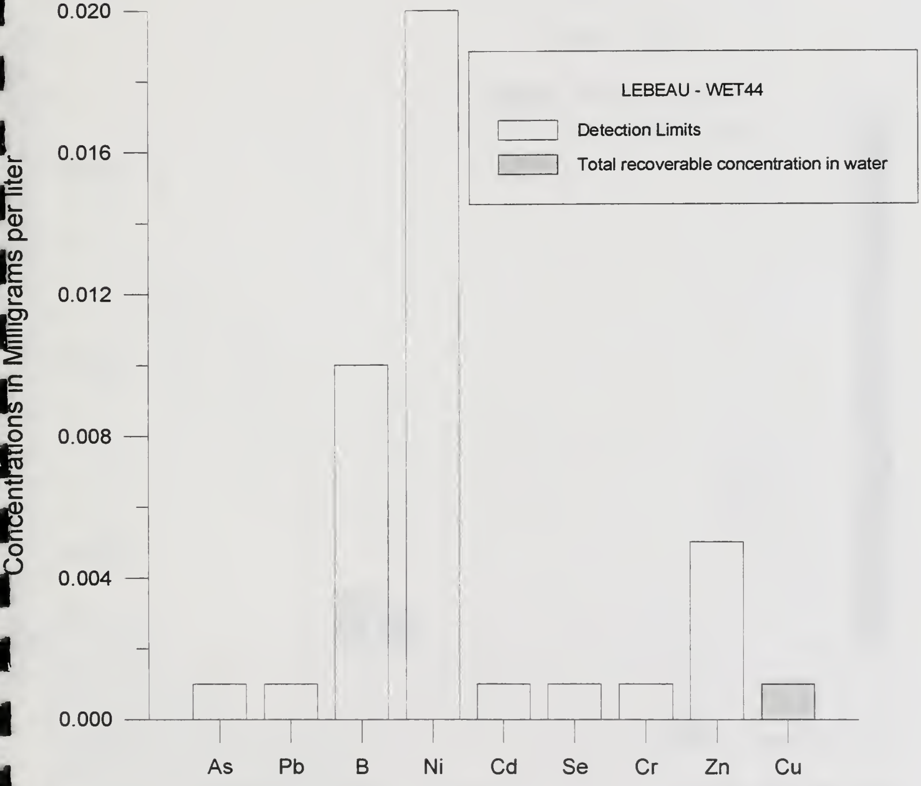
COE Hydrogeomorphic class: RIVERINE

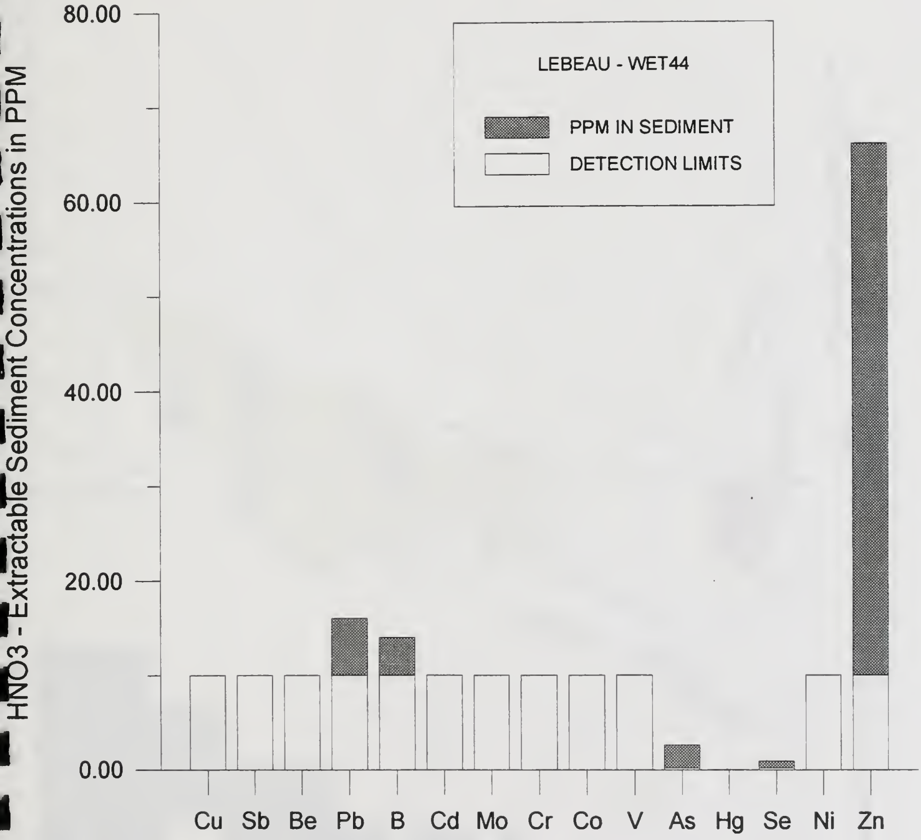
Primary surficial geologic unit 112DRFT

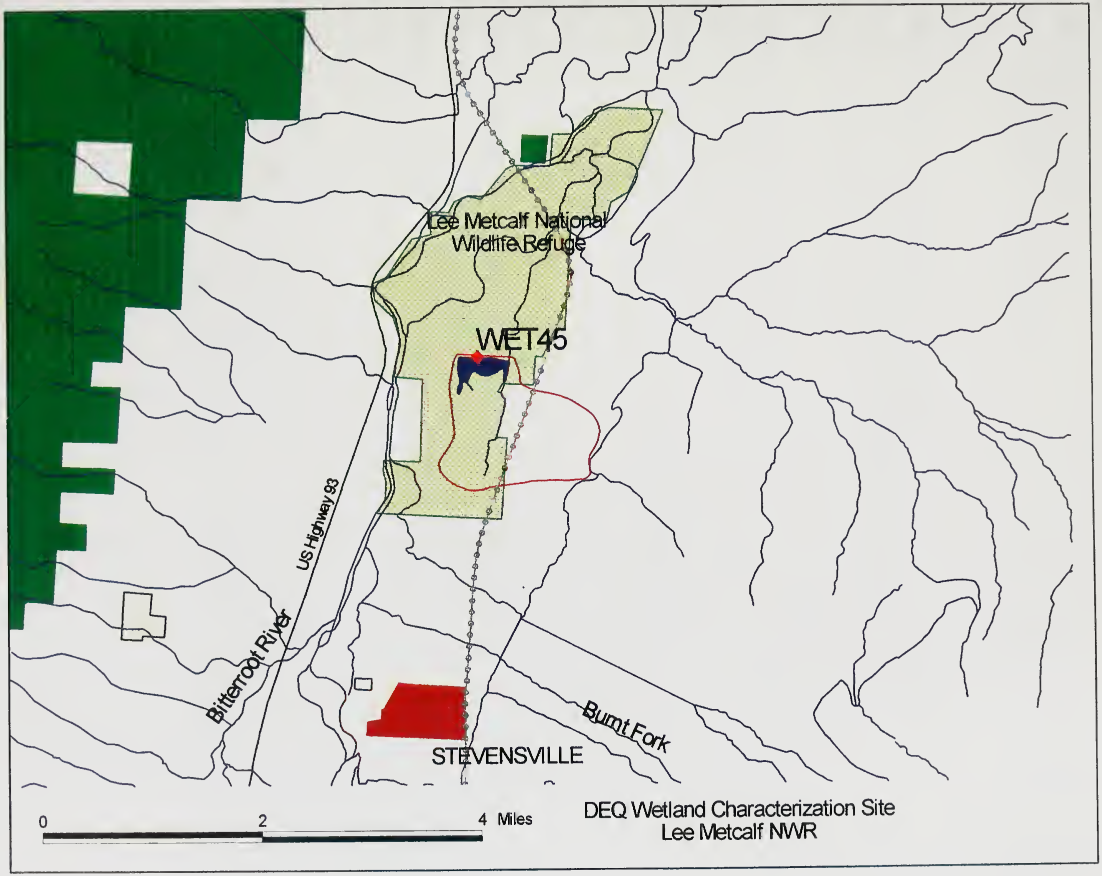
Primary bedrock geologic unit 400BELT


Total Annual Precipitation for Olney
Showing Mean for Period of Record
Annual Precipitation in Inches
30.00
20.00
10.00
0.00
1960
1970
1980
1990


Monthly Average, Maximum and Minimum Precipitation
Olney
Inches Precipitation
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec

Concentrations in Milligrams per liter
0.020
0.016
0.012
0.008
0.004
0.000
LEBEAU - WET44
Detection Limits
Total recoverable concentration in water
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
80.00
60.00
40.00
20.00
0.00
LEBEAU - WET44
PPM IN SEDIMENT
DETECTION LIMITS
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Site
Lee Metcalf NWR

Wetland: LEE METCALF NWR	Site Code: WET45
7.5 Minute Quad: STEVENSVILLE	Lat: 46 33 20 Long: 114 4 58

Mean Annual Precipitation in Inches:	11.00
Mean Annual Potential Evaporation (Penman) in Inches:	35.00
'Net Precipitation' in Inches:	-24.00

Site has a mapped surface inlet.

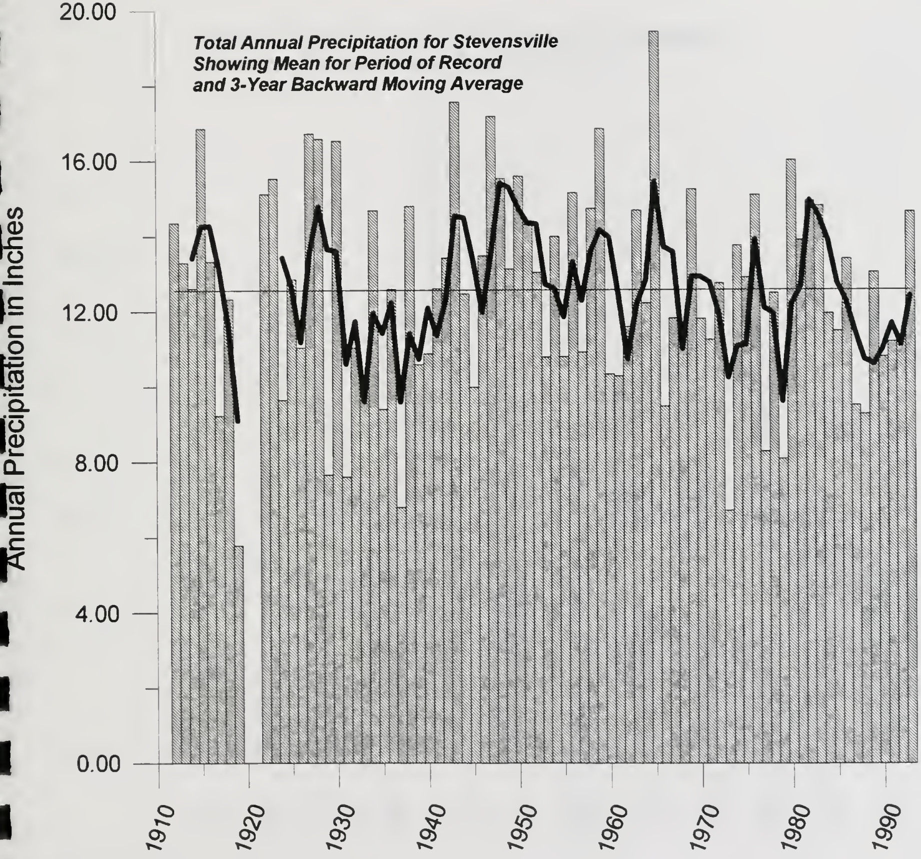
Site has a mapped surface outlet.

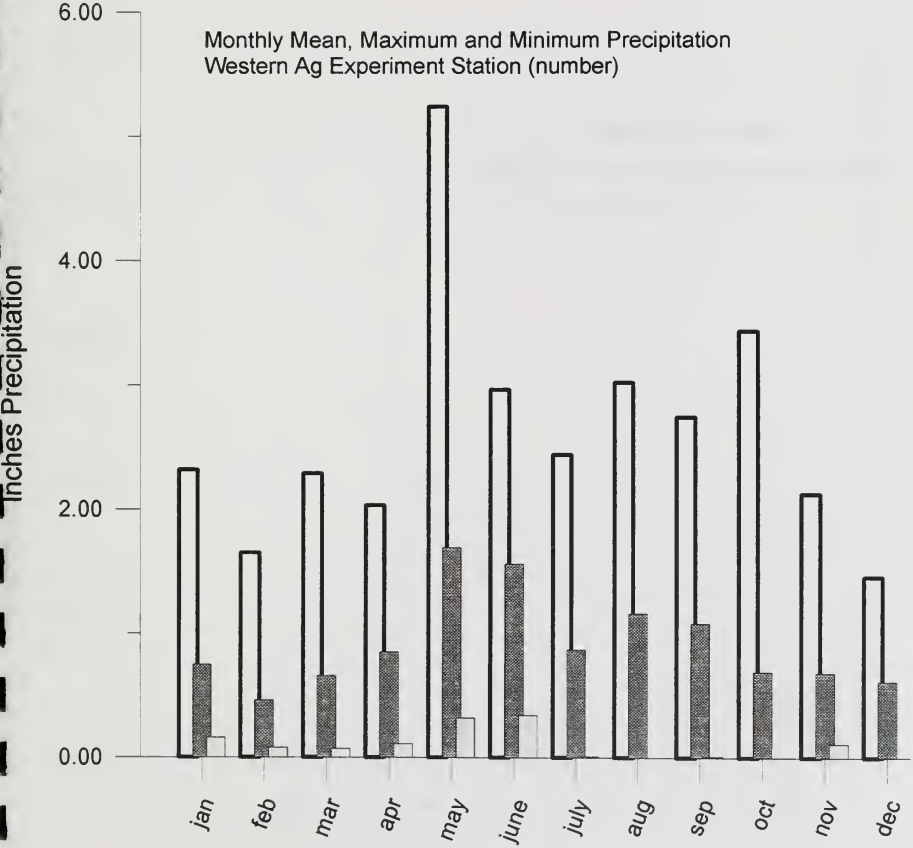
Site is artificially impounded.

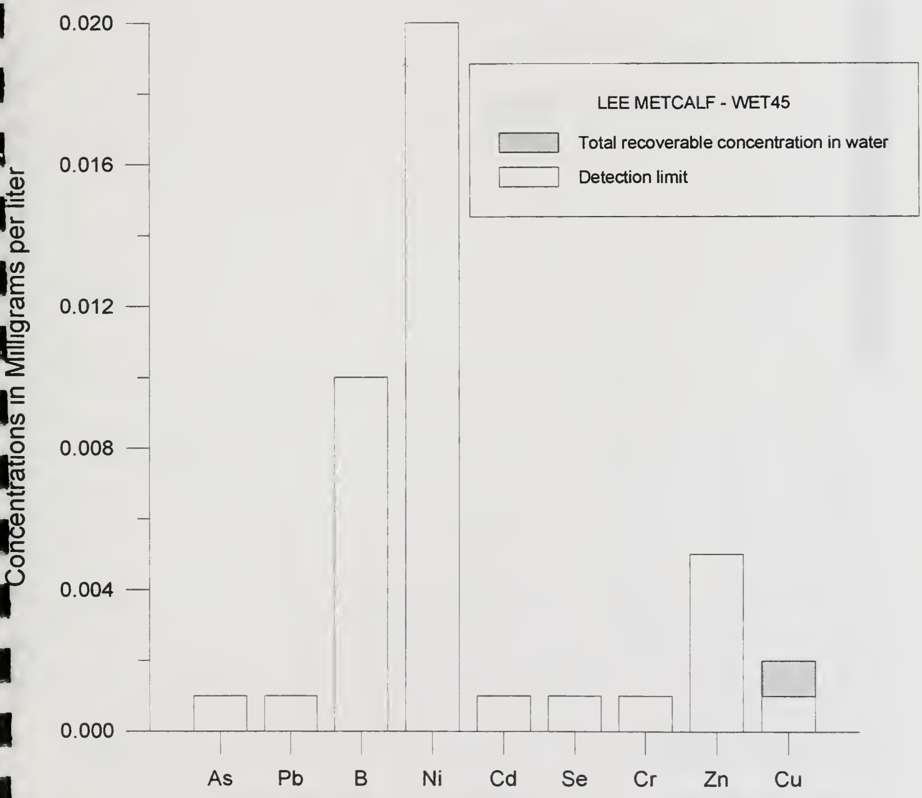
Site does not have known significant water imports.

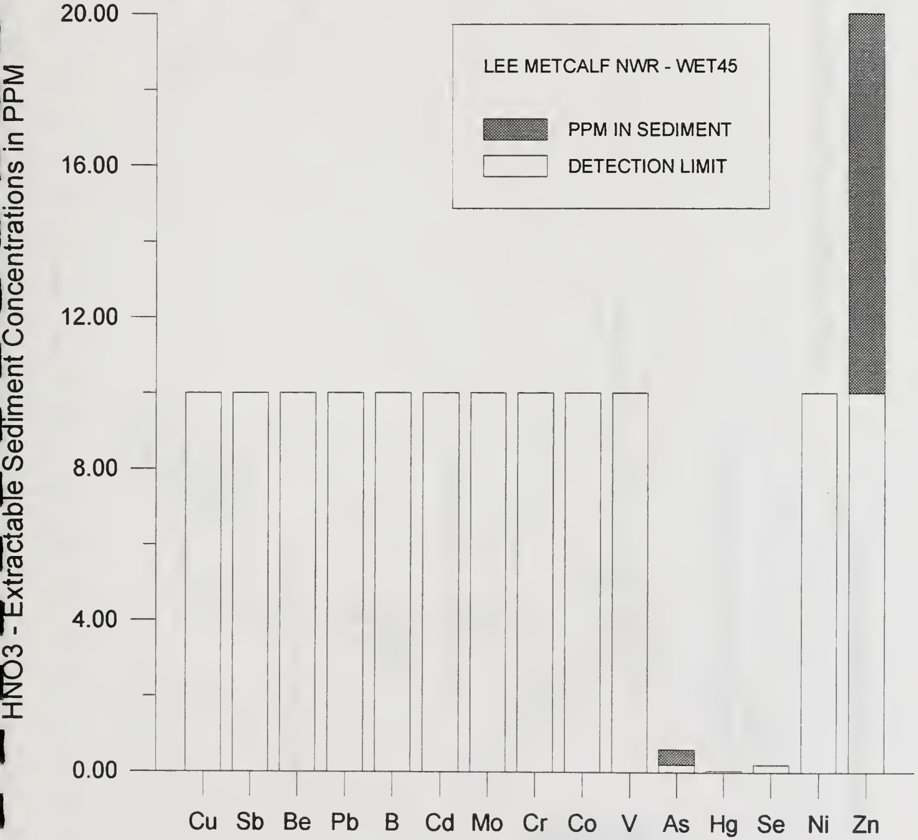
Mapped area of wetland:	50 acres
Area of contributing drainage basin:	810 acres
Mapped elevation of wetland surface:	3255 ft
Maximum elevation within drainage basin:	3365 ft
Net relief of contributing basin:	110 ft

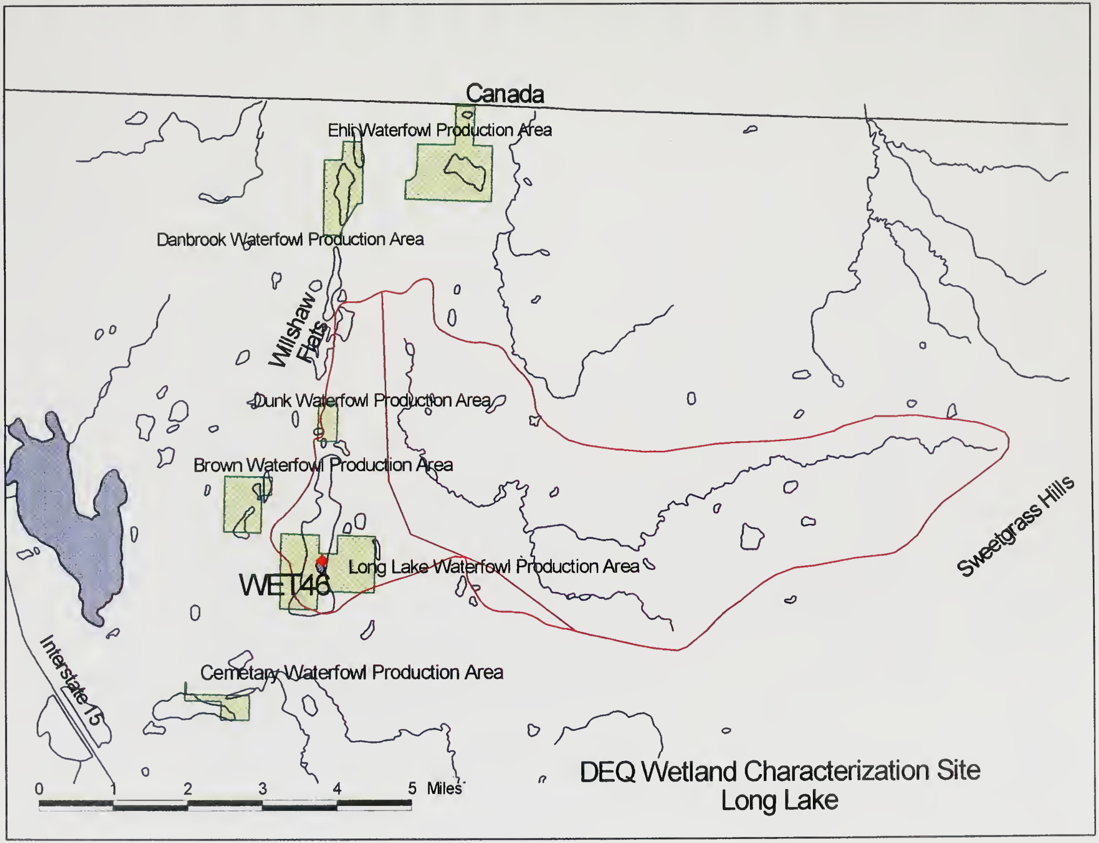
COE Hydrogeomorphic class:	DEPRESSIONAL
Primary surficial geologic unit	111ALVM
Primary bedrock geologic unit	120SDMS


Total Annual Precipitation for Stevensville
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
20.00
16.00
12.00
8.00
4.00
0.00
1910
1920
1930
1940
1950
1960
1970
1980
1990


Monthly Mean, Maximum and Minimum Precipitation
Western Ag Experiment Station (number)
Inches Precipitation
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


LEE METCALF - WET45
Total recoverable concentration in water
Detection limit
Concentrations in Milligrams per liter
0.020
0.016
0.012
0.008
0.004
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


LEE METCALF NWR - WET45
PPM IN SEDIMENT
DETECTION LIMIT
HNO3 - Extractable Sediment Concentrations in PPM
20.00
16.00
12.00
8.00
4.00
0.00
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Site
Long Lake

Canada
Ehli Waterfowl Production Area
Danbrook Waterfowl Production Area
Willshaw Flats
Dunk Waterfowl Production Area
Brown Waterfowl Production Area
WET46
Long Lake Waterfowl Production Area
Cemetary Waterfowl Production Area
Sweetgrass Hills
Interstate 15
0
1
2
3
4
5 Miles

Wetland: LONG LAKE WPA	Site Code: WET46
7.5 Minute Quad: WILLSHAW FLATS	Lat: 48 54 30 Long: 111 49 20

Mean Annual Precipitation in Inches:	11.00
Mean Annual Potential Evaporation (Penman) in Inches:	37.00
'Net Precipitation' in Inches:	-26.00

Site has a mapped surface inlet.

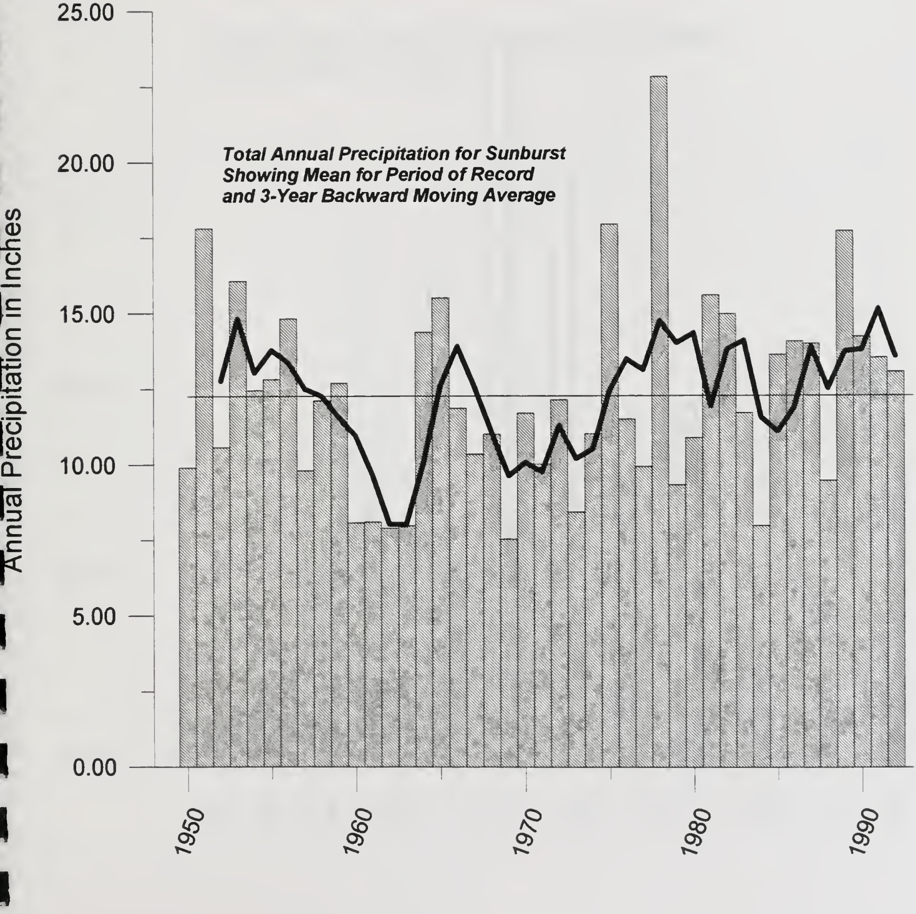
Site does not have a mapped surface outlet.

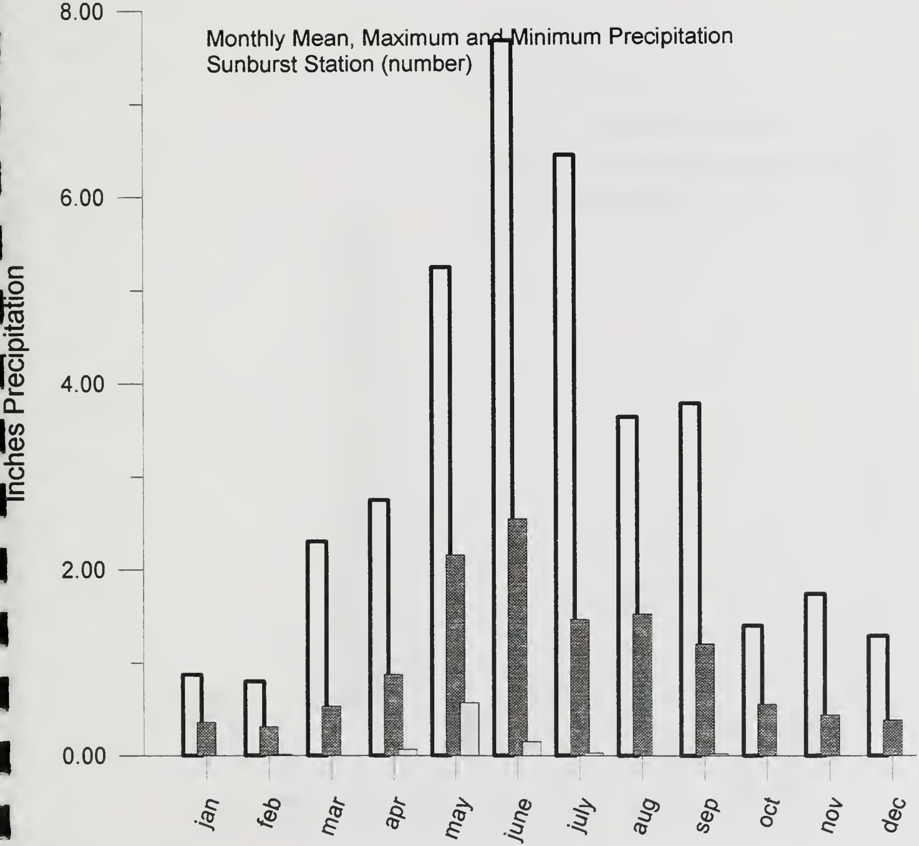
Site is not known to be artificially impounded.

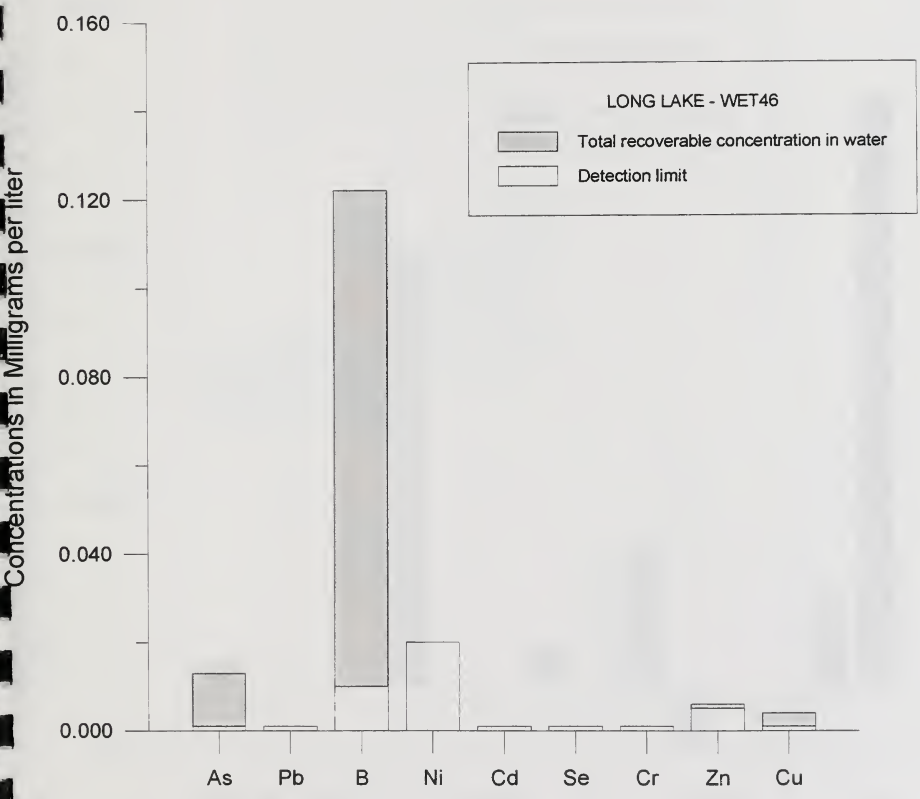
Site does not have known significant water imports.

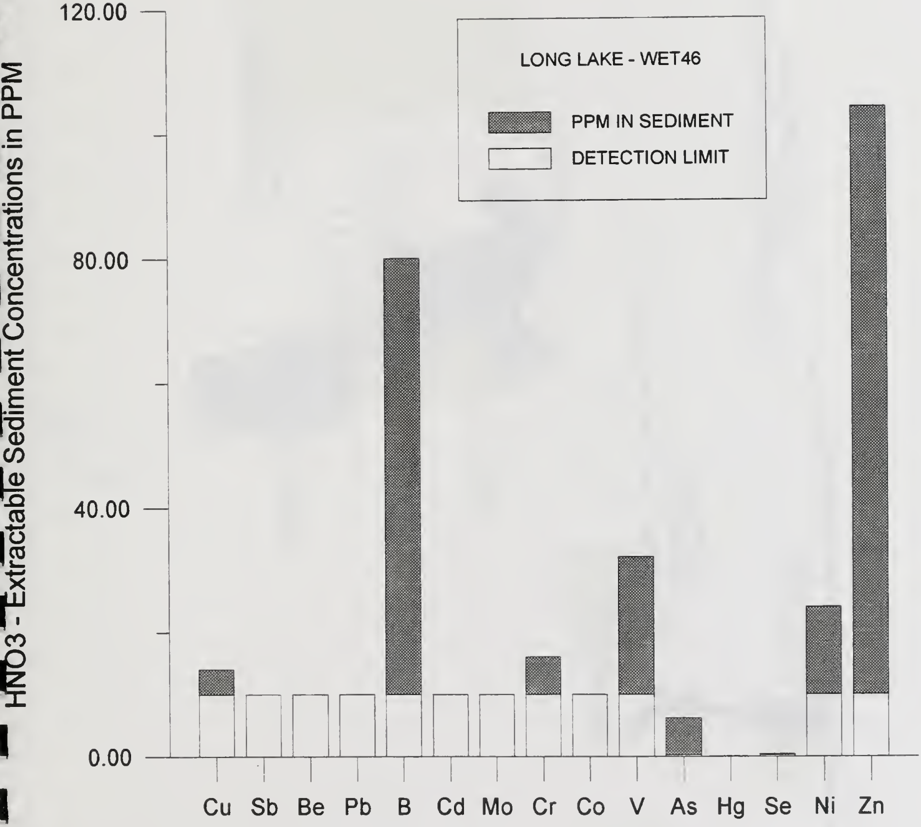
Mapped area of wetland:	10 acres
Area of contributing drainage basin:	3200 acres
Mapped elevation of wetland surface:	3315 ft
Maximum elevation within drainage basin:	4404 ft
Net relief of contributing basin:	1089 ft

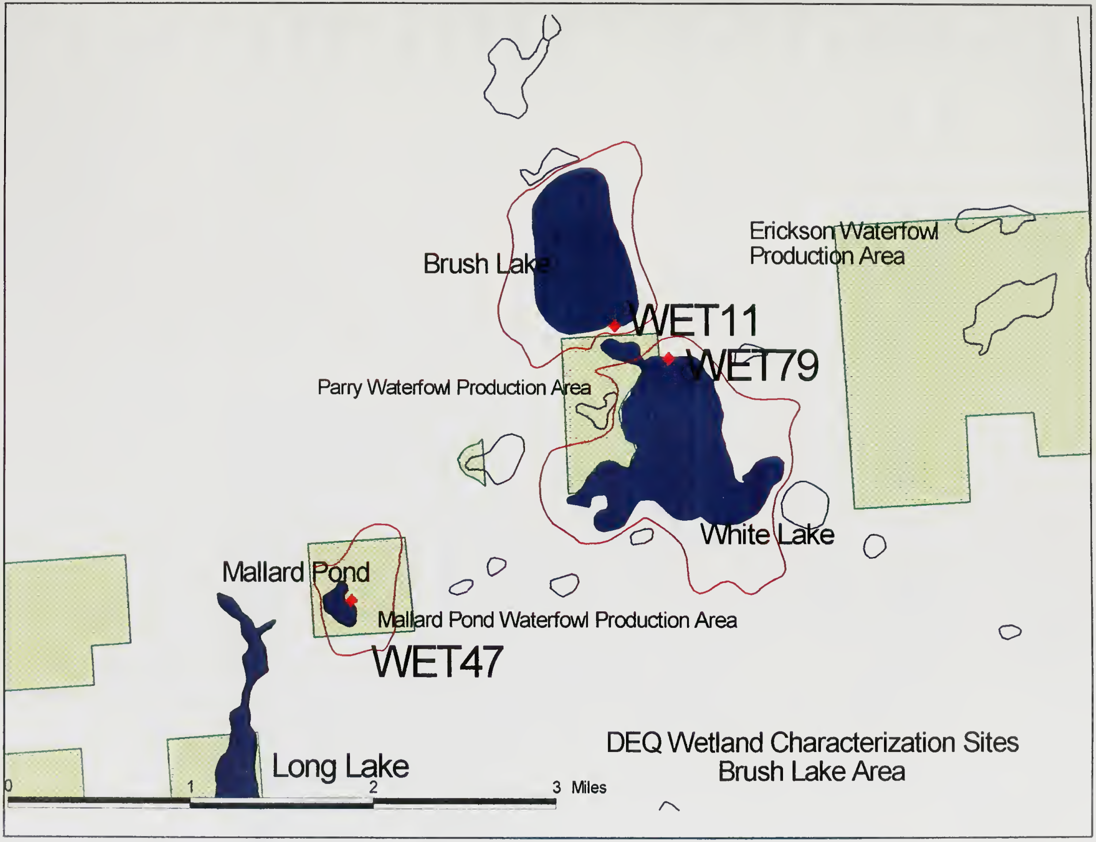
COE Hydrogeomorphic class:	DEPRESSIONAL
Primary surficial geologic unit	112TILL
Primary bedrock geologic unit	211CLRD


Total Annual Precipitation for Sunburst
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
25.00
20.00
15.00
10.00
5.00
0.00
1950
1960
1970
1980
1990


Monthly Mean, Maximum and Minimum Precipitation
Sunburst Station (number)
Inches Precipitation
8.00
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


LONG LAKE - WET46
Total recoverable concentration in water
Detection limit
Concentrations in Milligrams per liter
0.160
0.120
0.080
0.040
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
120.00
80.00
40.00
0.00
LONG LAKE - WET46
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn


DEQ Wetland Characterization Sites
Brush Lake Area

Wetland: MALLARD POND

7.5 Minute Quad: DAGMAR

Site Code: WET47

Lat: 48 34 25
Long: 104 8 20

Mean Annual Precipitation in Inches: 13.00

Mean Annual Potential Evaporation (Penman) in Inches: 36.00

'Net Precipitation' in Inches: -23.00

Site does not have a mapped surface inlet.

Site has a mapped surface outlet.

Site is not known to be artificially impounded.

Site does not have known significant water imports.

Mapped area of wetland: 17 acres

Area of contributing drainage basin: 160 acres

Mapped elevation of wetland surface: 1953 ft

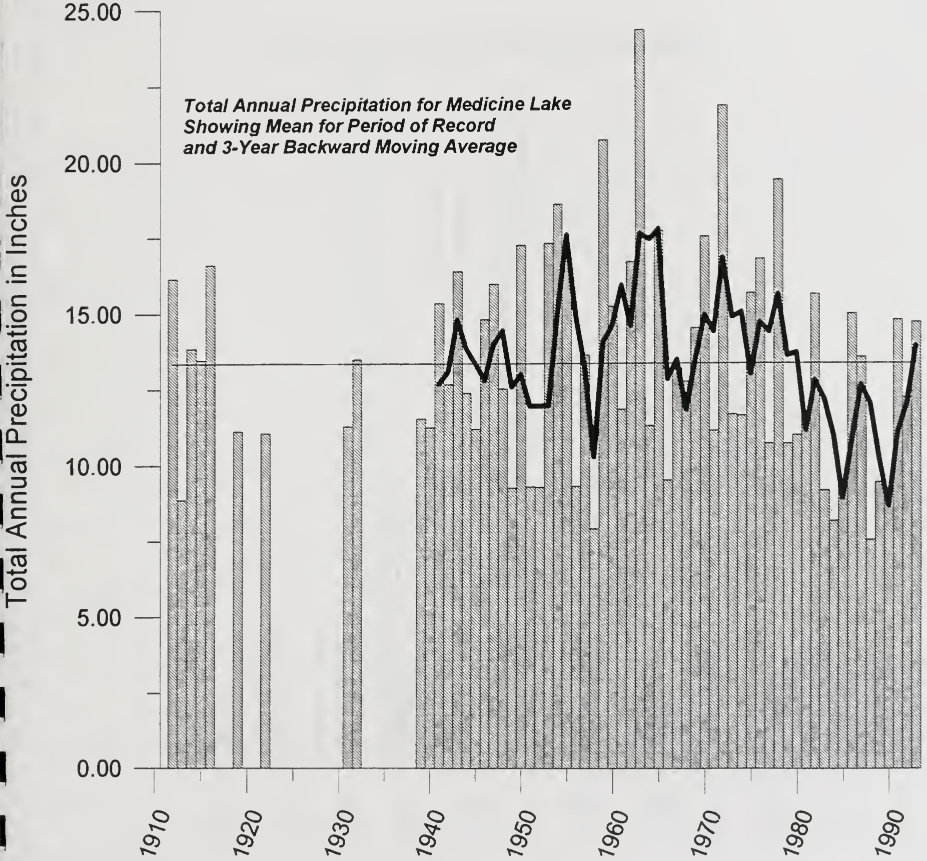
Maximum elevation within drainage basin: 1993 ft

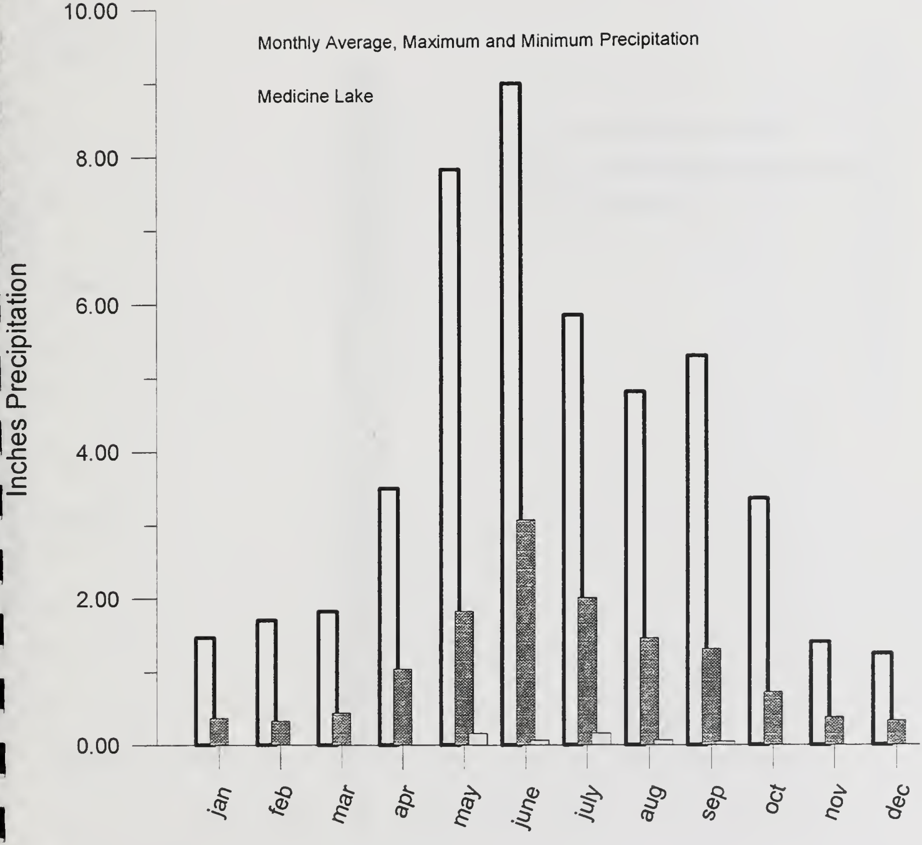
Net relief of contributing basin: 40 ft

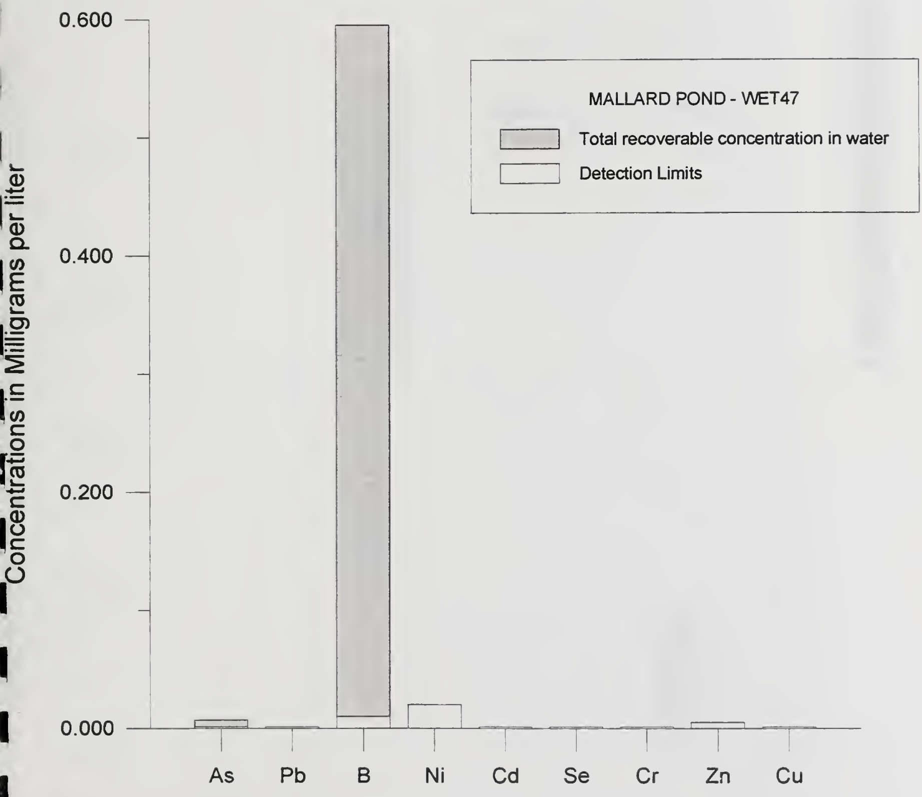
COE Hydrogeomorphic class: FRINGE

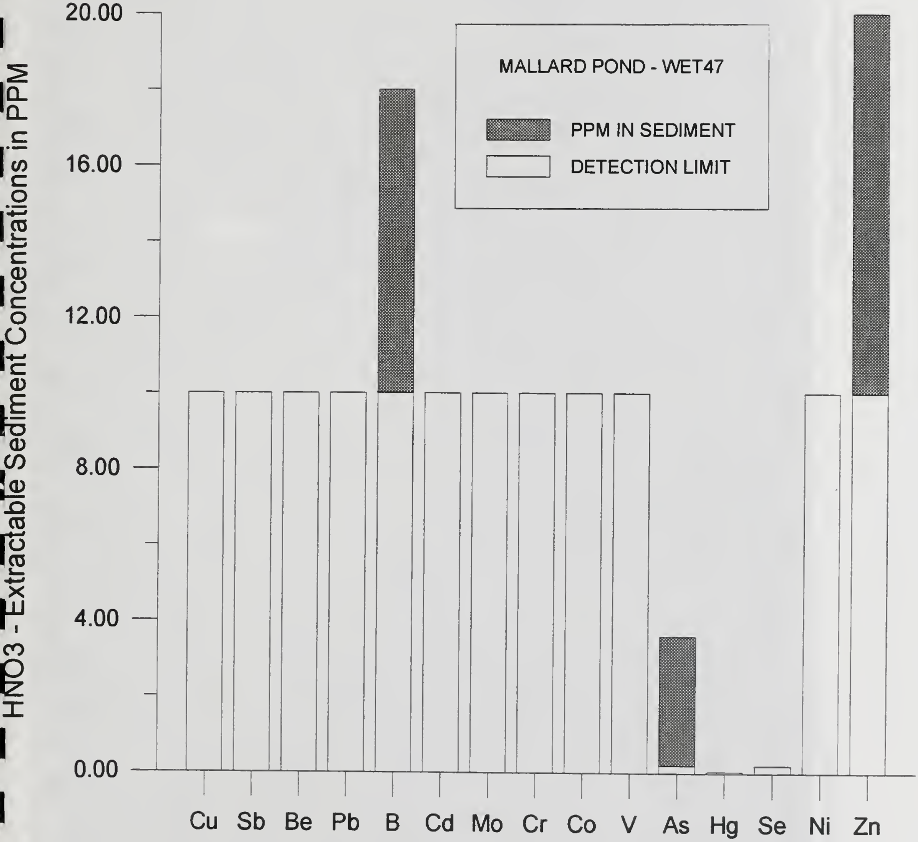
Primary surficial geologic unit 112OTSH

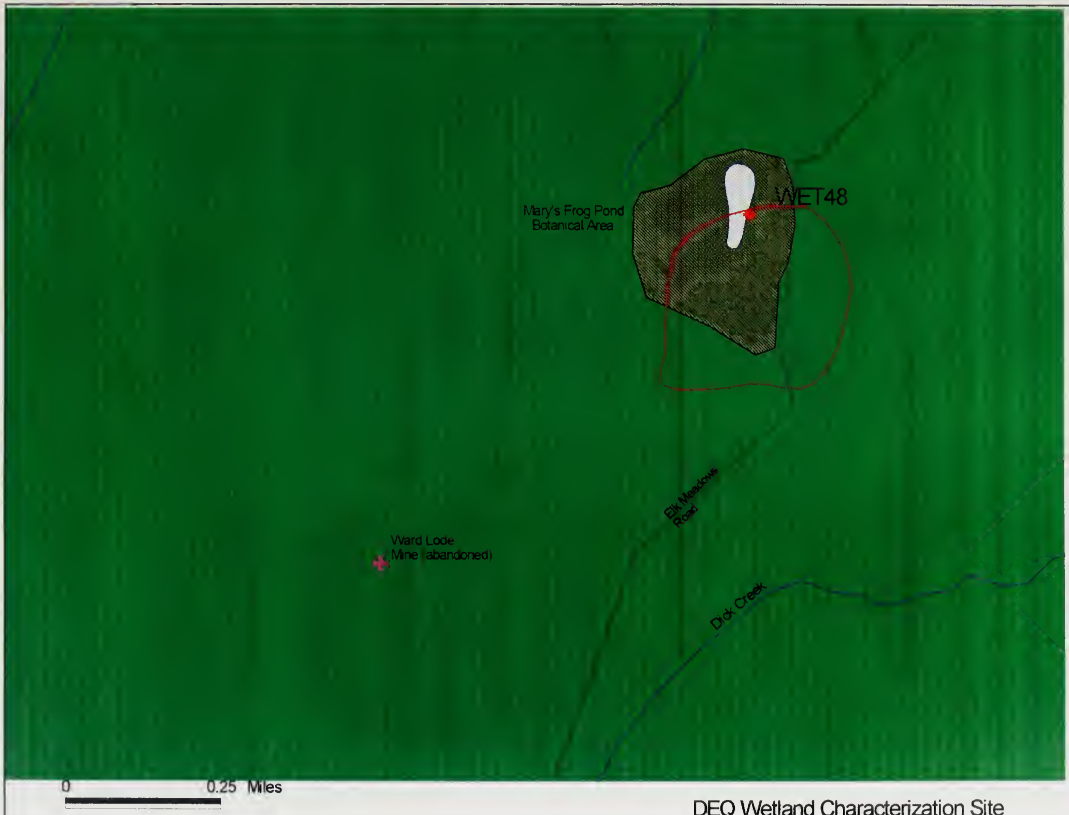
Primary bedrock geologic unit 125FRUN


Total Annual Precipitation for Medicine Lake
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Total Annual Precipitation in Inches
25.00
20.00
15.00
10.00
5.00
0.00
1910
1920
1930
1940
1950
1960
1970
1980
1990


Monthly Average, Maximum and Minimum Precipitation
Medicine Lake
Inches Precipitation
10.00
8.00
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


Concentrations in Milligrams per liter
0.600
0.400
0.200
0.000
MALLARD POND - WET47
Total recoverable concentration in water
Detection Limits
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
20.00
16.00
12.00
8.00
4.00
0.00
MALLARD POND - WET47
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Site
Mary's Frog Pond

Wetland: MARY'S FROG POND BOTANICAL AREA
Site Code: WET48

7.5 Minute Quad: DICK CREEK
Lat: 46 42 12
Long: 114 20 57

Mean Annual Precipitation in Inches: 50.00

Mean Annual Potential Evaporation (Penman) in Inches: 30.00

'Net Precipitation' in Inches: 20.00

Site does not have a mapped surface inlet.

Site does not have a mapped surface outlet.

Site is not known to be artificially impounded.

Site does not have known significant water imports.

Mapped area of wetland: 3 acres

Area of contributing drainage basin: 48 acres

Mapped elevation of wetland surface: 5750 ft

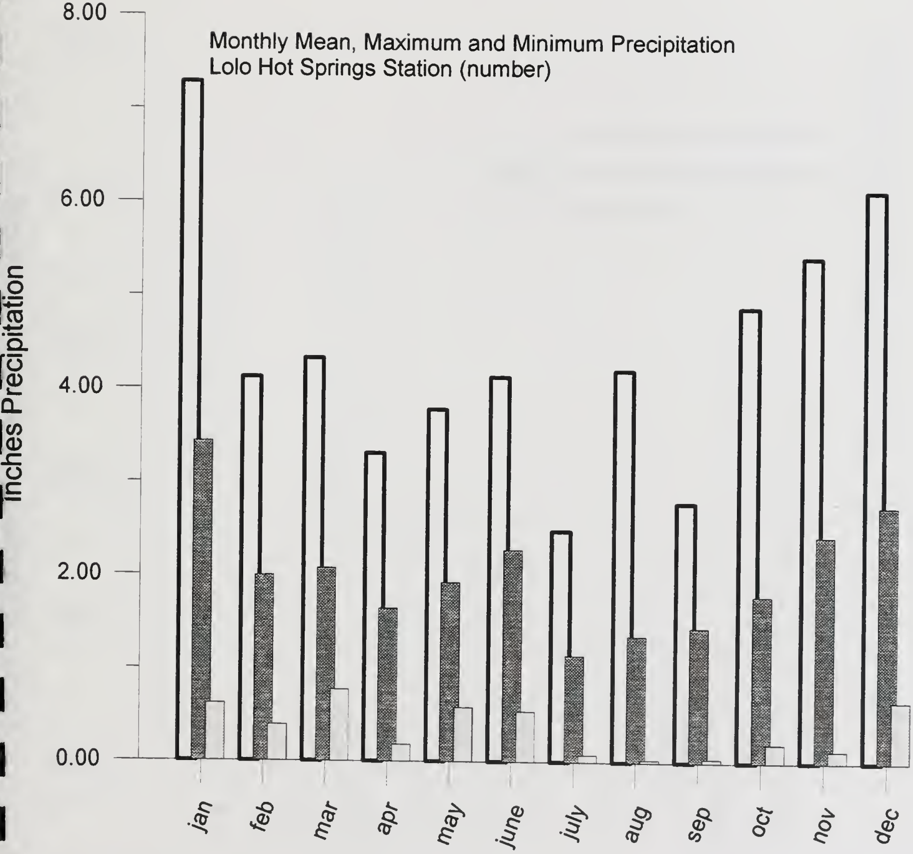
Maximum elevation within drainage basin: 6100 ft

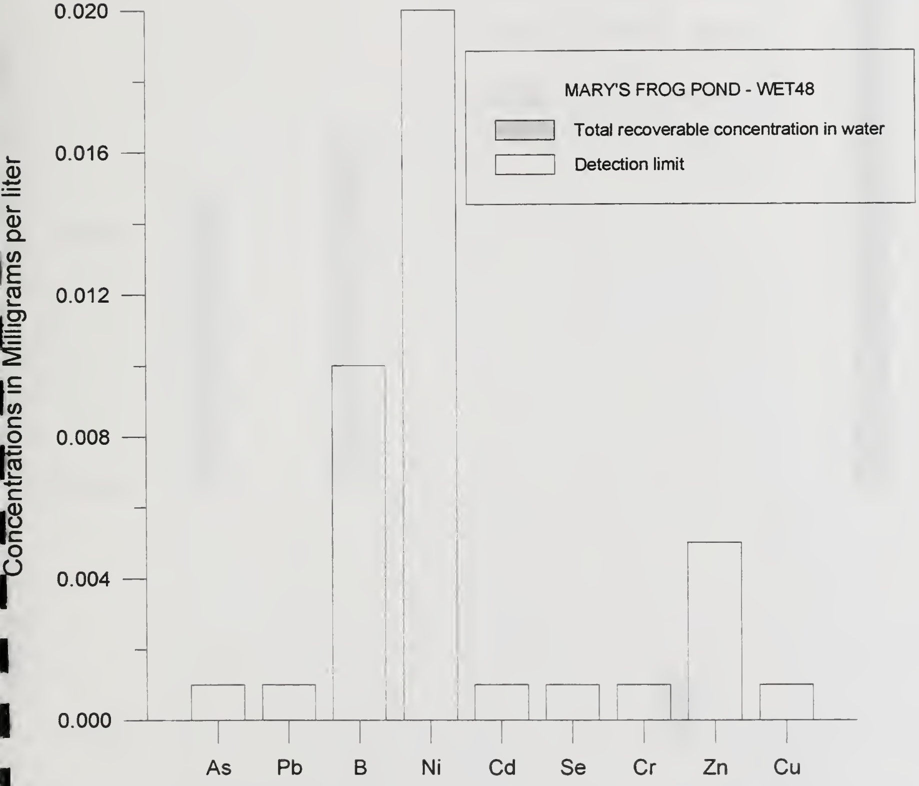
Net relief of contributing basin: 350 ft

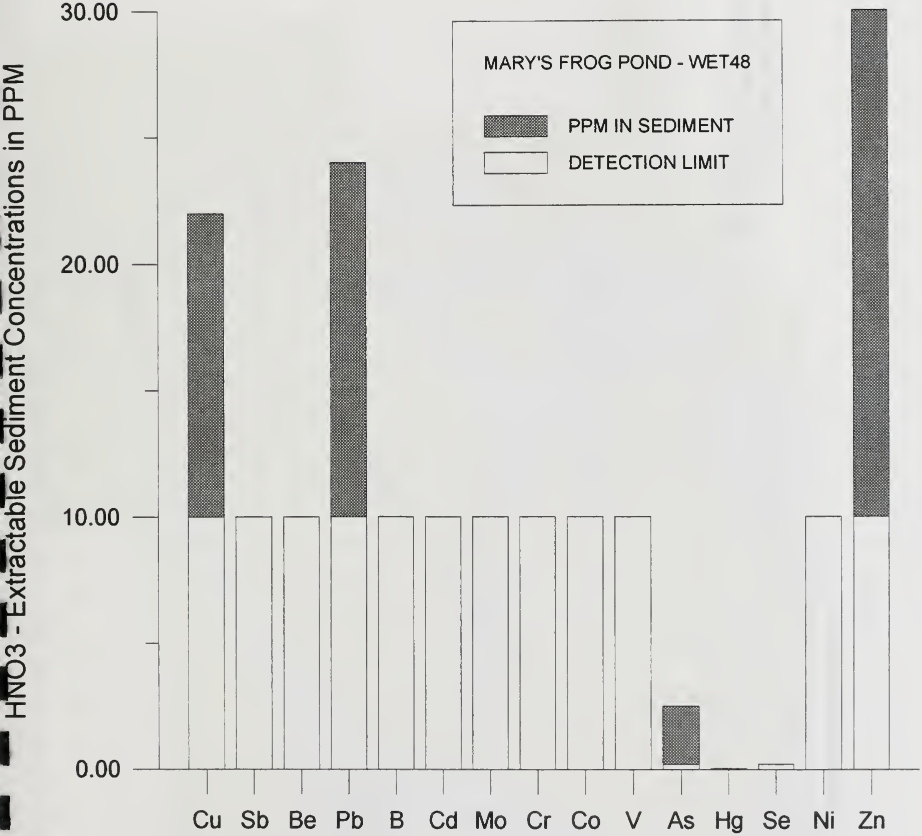
COE Hydrogeomorphic class: DEPRESSIONAL

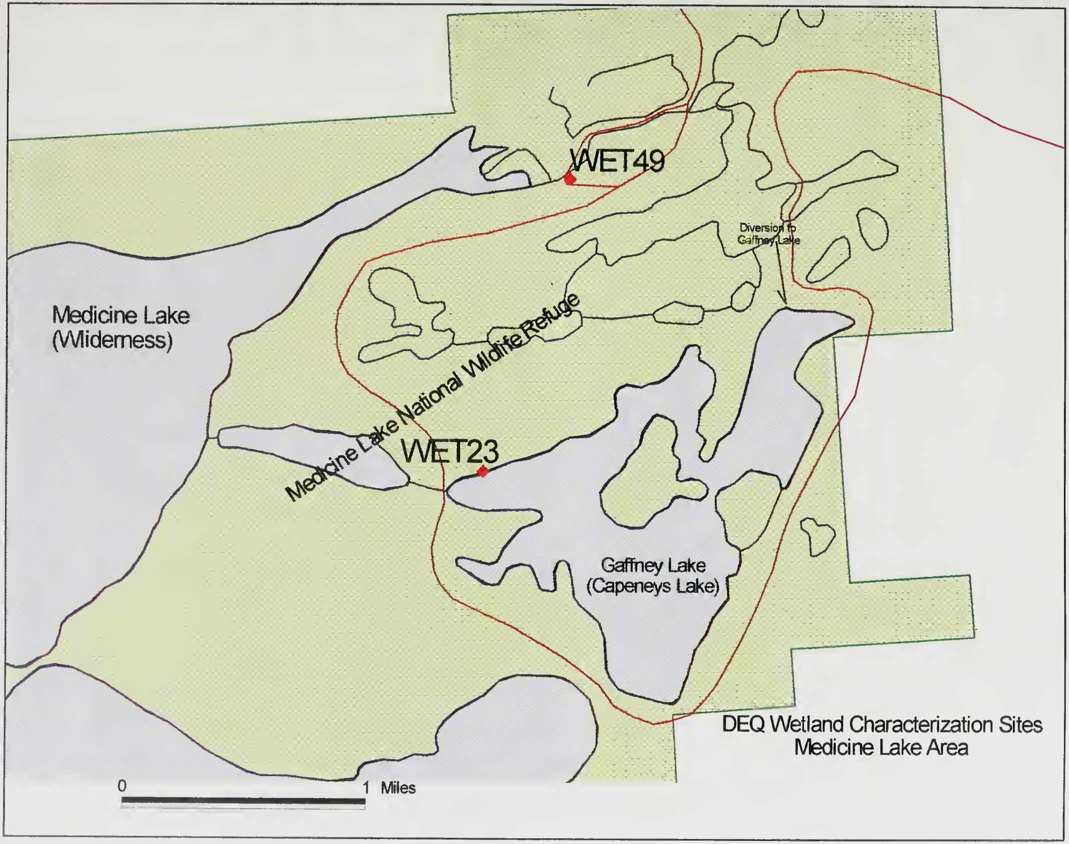
Primary surficial geologic unit

Primary bedrock geologic unit 400RVLL


Monthly Mean, Maximum and Minimum Precipitation
Lolo Hot Springs Station (number)
Inches Precipitation
8.00
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


MARY'S FROG POND - WET48
▨ Total recoverable concentration in water
☐ Detection limit
Concentrations in Milligrams per liter
0.020
0.016
0.012
0.008
0.004
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
30.00
20.00
10.00
0.00
MARY'S FROG POND - WET48
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn


WET49
Diversion to Gaffney Lake
Medicine Lake (Wilderness)
Medicine Lake National Wildlife Refuge
WET23
Gaffney Lake (Capeneys Lake)
0
1 Miles

DEQ Wetland Characterization Sites
Medicine Lake Area

Wetland: MEDICINE LAKE AT LAKE CREEK INLET
Site Code: WET49

7.5 Minute Quad: MEDICINE LAKE
Lat: 48 29 40
Long: 104 19 30

Mean Annual Precipitation in Inches: 13.00

Mean Annual Potential Evaporation (Penman) in Inches: 37.00

'Net Precipitation' in Inches: -24.00

Site has a mapped surface inlet.

Site has a mapped surface outlet.

Site is artificially impounded.

Site has significant water imports.

Mapped area of wetland: 8814 acres

Area of contributing drainage basin: 292170 acres

Mapped elevation of wetland surface: 1935 ft

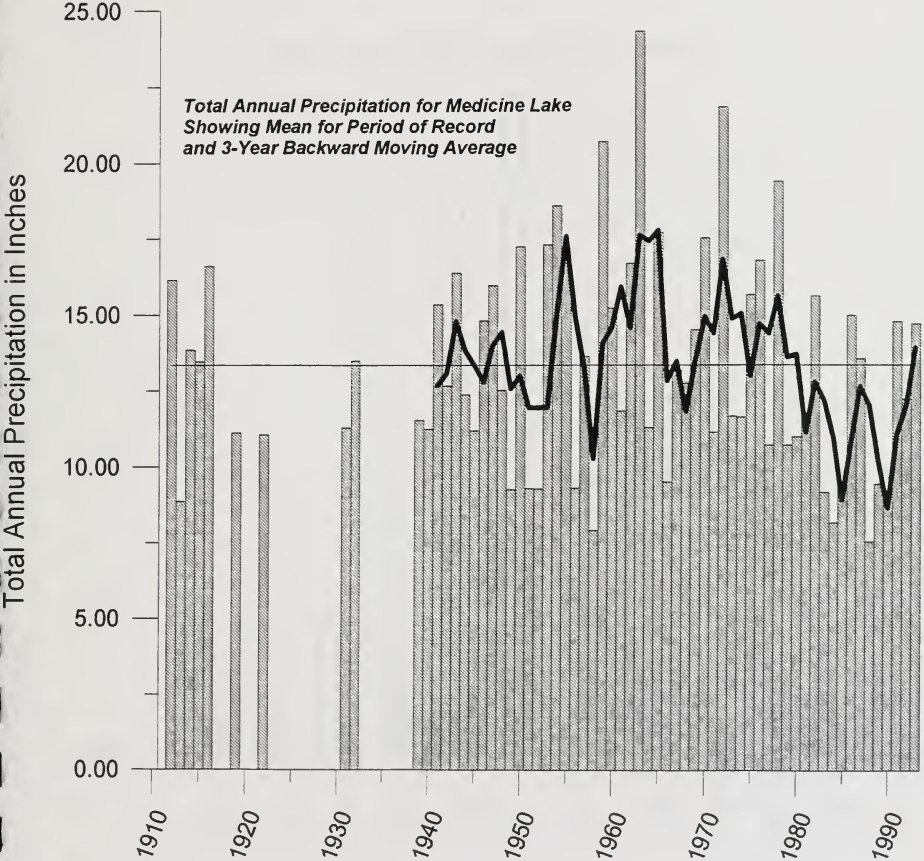
Maximum elevation within drainage basin: 2408 ft

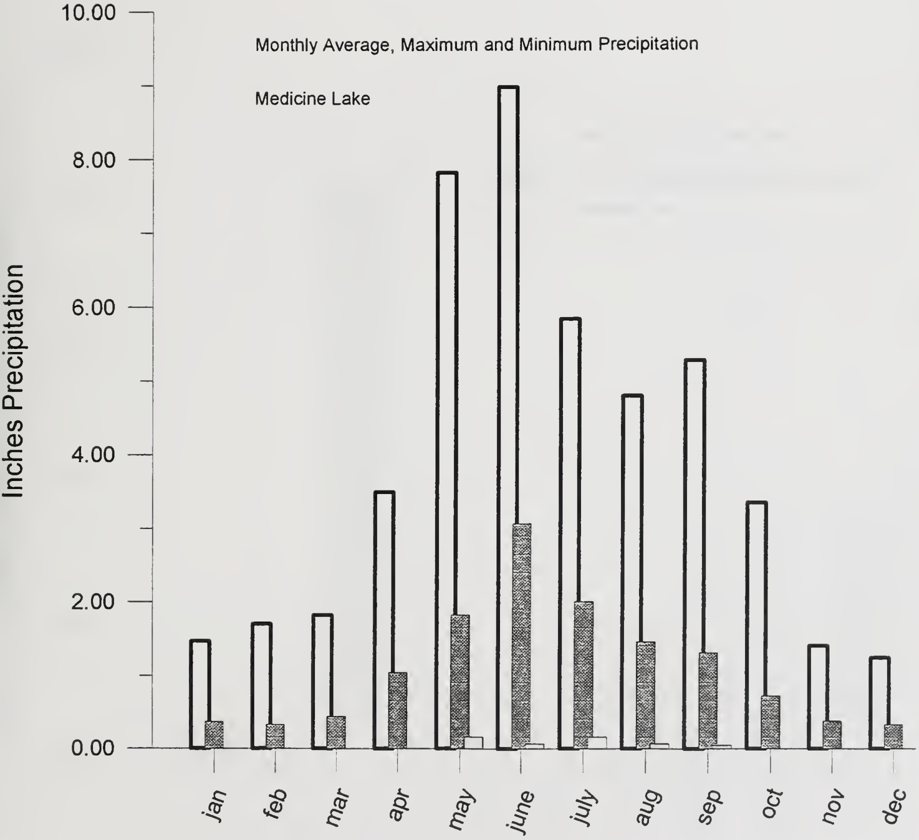
Net relief of contributing basin: 473 ft

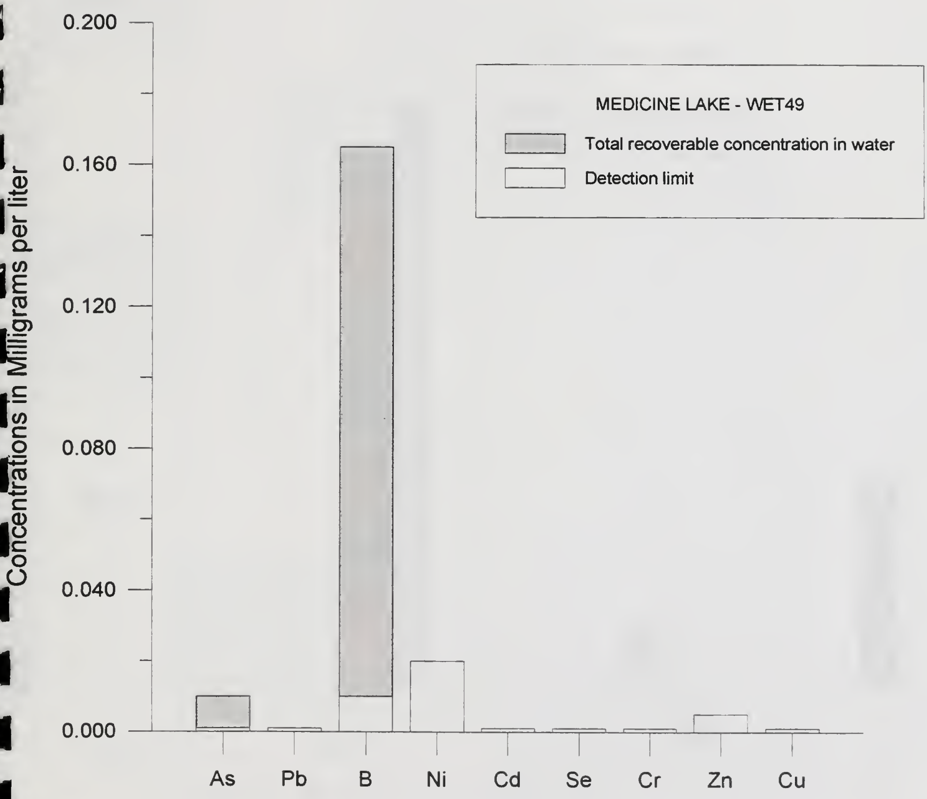
COE Hydrogeomorphic class: FRINGE

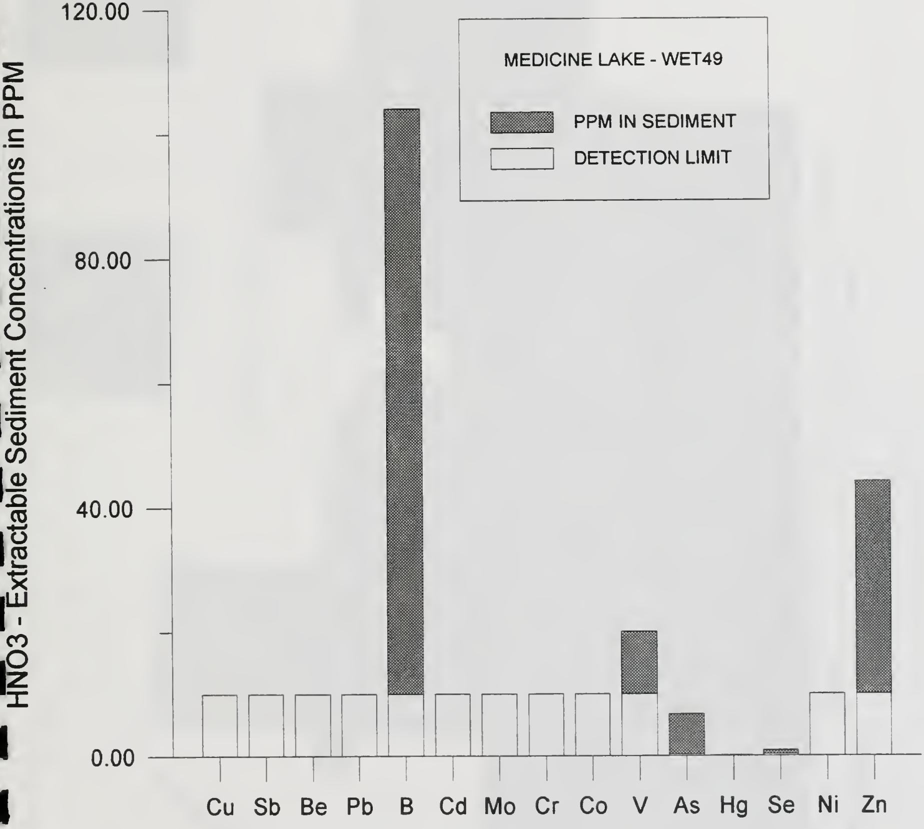
Primary surficial geologic unit 112OTSH

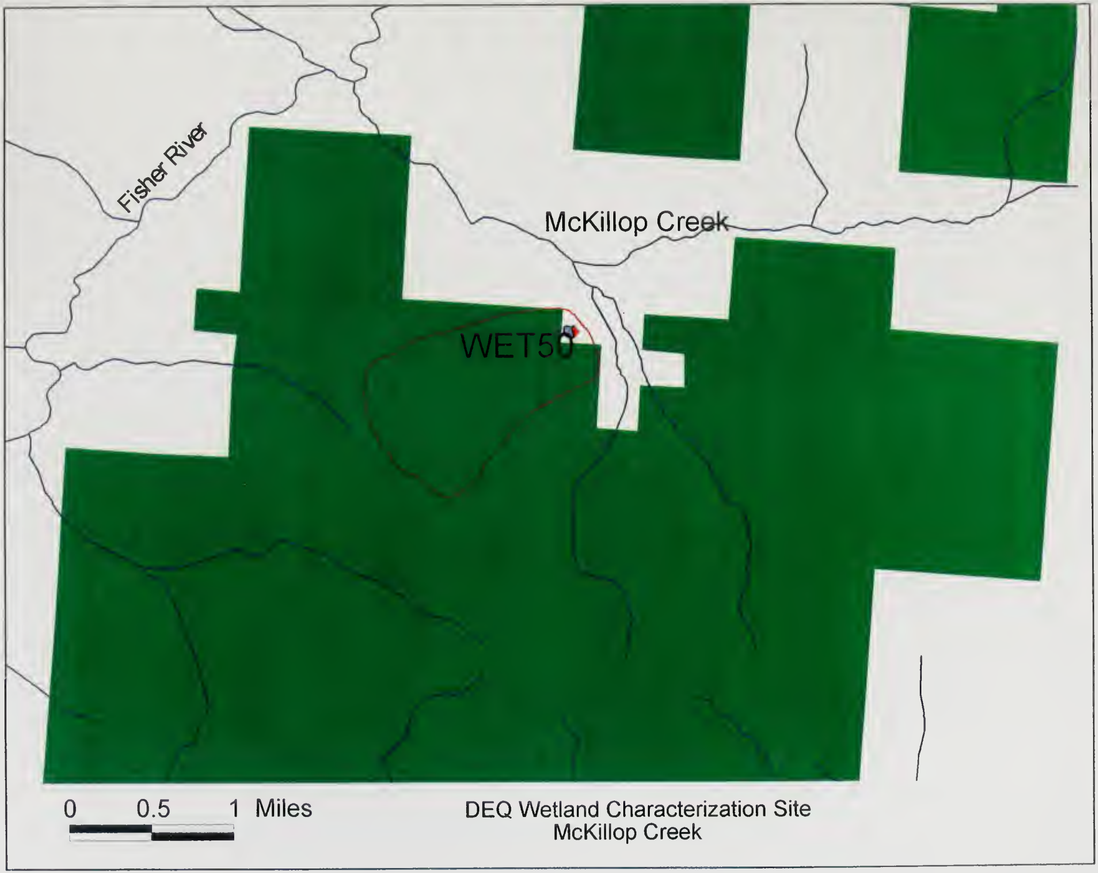
Primary bedrock geologic unit 125FRUN


Total Annual Precipitation for Medicine Lake
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Total Annual Precipitation in Inches
25.00
20.00
15.00
10.00
5.00
0.00
1910
1920
1930
1940
1950
1960
1970
1980
1990


Monthly Average, Maximum and Minimum Precipitation
Medicine Lake
Inches Precipitation
10.00
8.00
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


Concentrations in Milligrams per liter
0.200
0.160
0.120
0.080
0.040
0.000
MEDICINE LAKE - WET49
Total recoverable concentration in water
Detection limit
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
120.00
80.00
40.00
0.00
MEDICINE LAKE - WET49
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Site
McKillop Creek

Wetland: MIKILLOP CREEK WETLAND   Site Code: WET50

7.5 Minute Quad: FISHER MOUNTAIN

Lat: 48 8 17
Long: 115 16 0

Mean Annual Precipitation in Inches: 25.00

Mean Annual Potential Evaporation (Penman) in Inches: 28.00

'Net Precipitation' in Inches: -3.00

Site has a mapped surface inlet.

Site does not have a mapped surface outlet.

Site is not known to be artificially impounded.

Site does not have known significant water imports.

Mapped area of wetland: 2 acres

Area of contributing drainage basin: 620 acres

Mapped elevation of wetland surface: 3032 ft

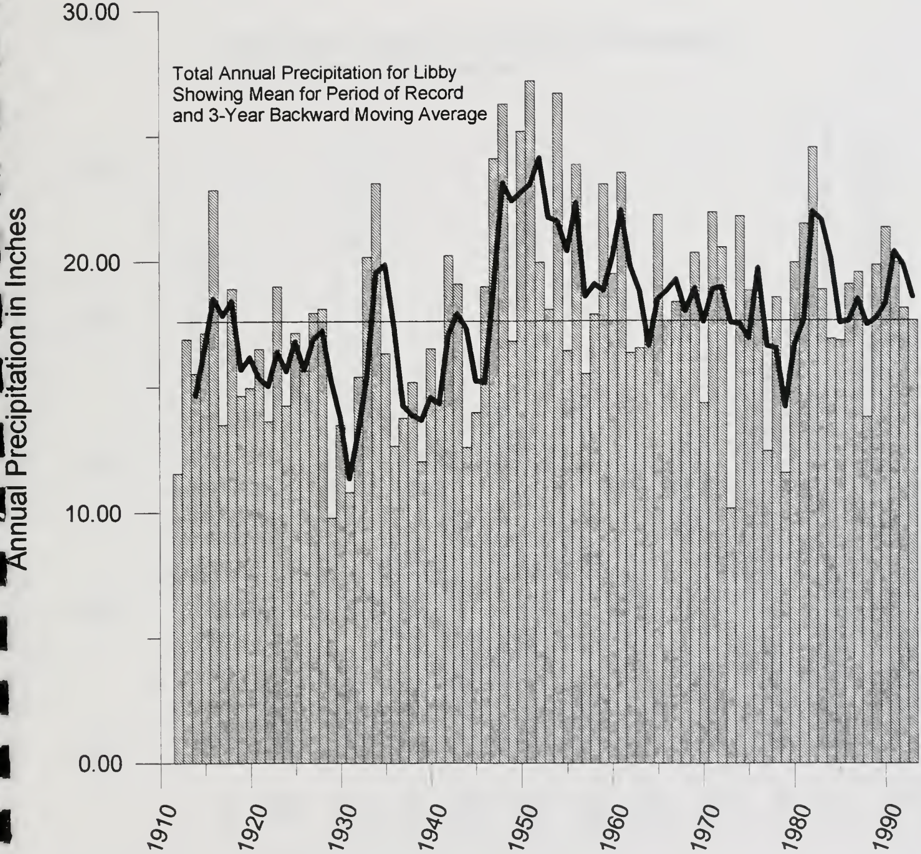
Maximum elevation within drainage basin: 5988 ft

Net relief of contributing basin: 2956 ft

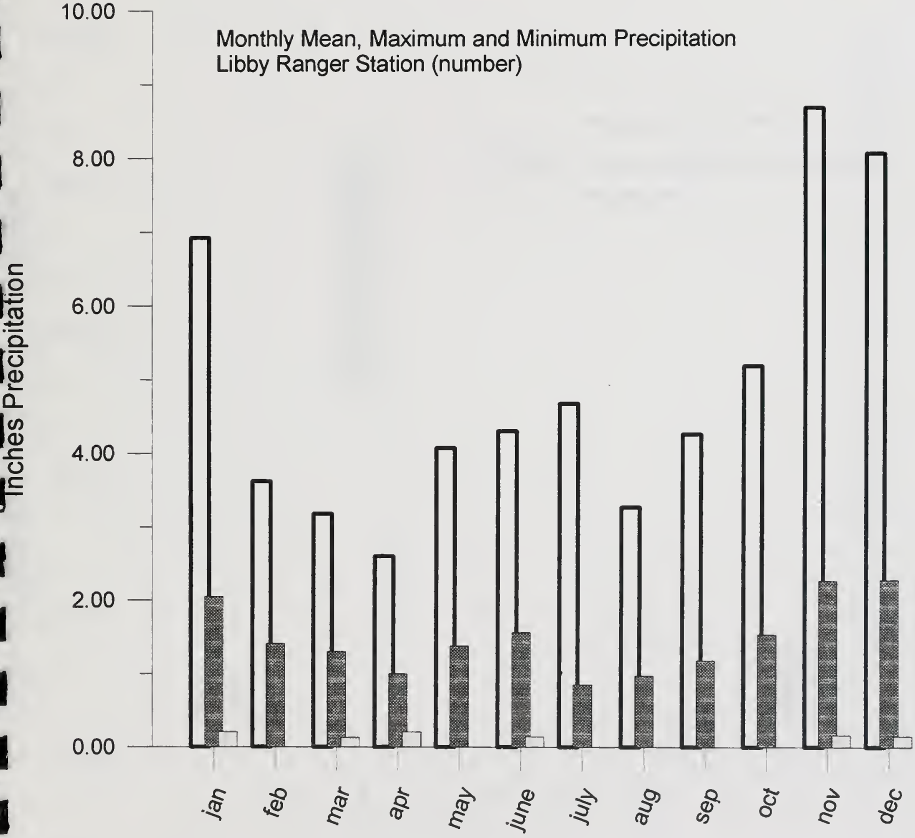
COE Hydrogeomorphic class: DEPRESSIONAL

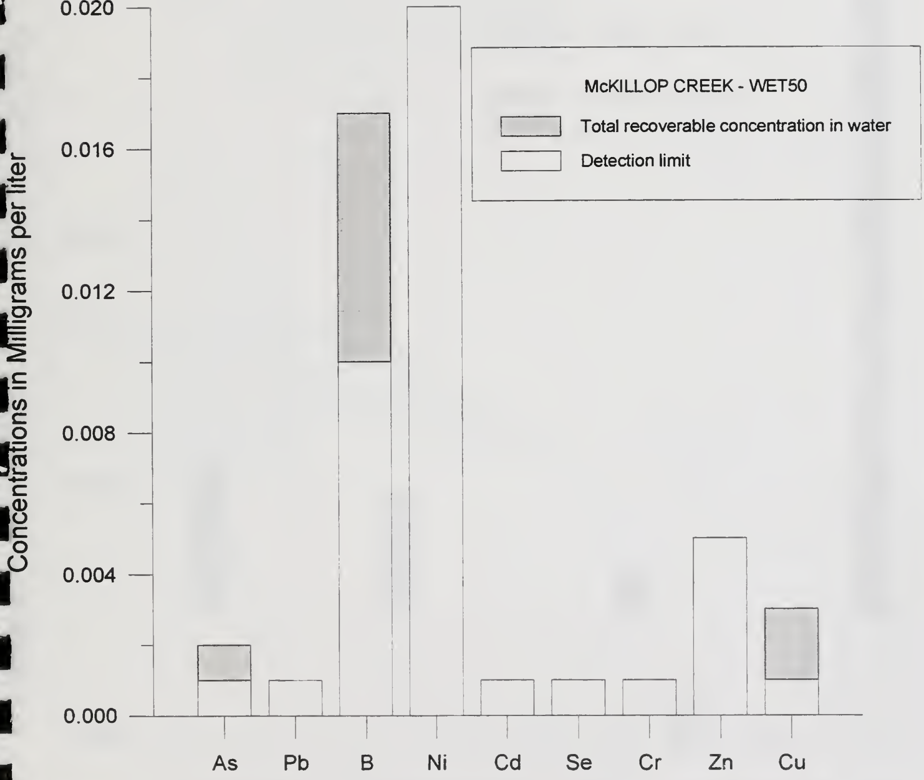
Primary surficial geologic unit 112DRFT

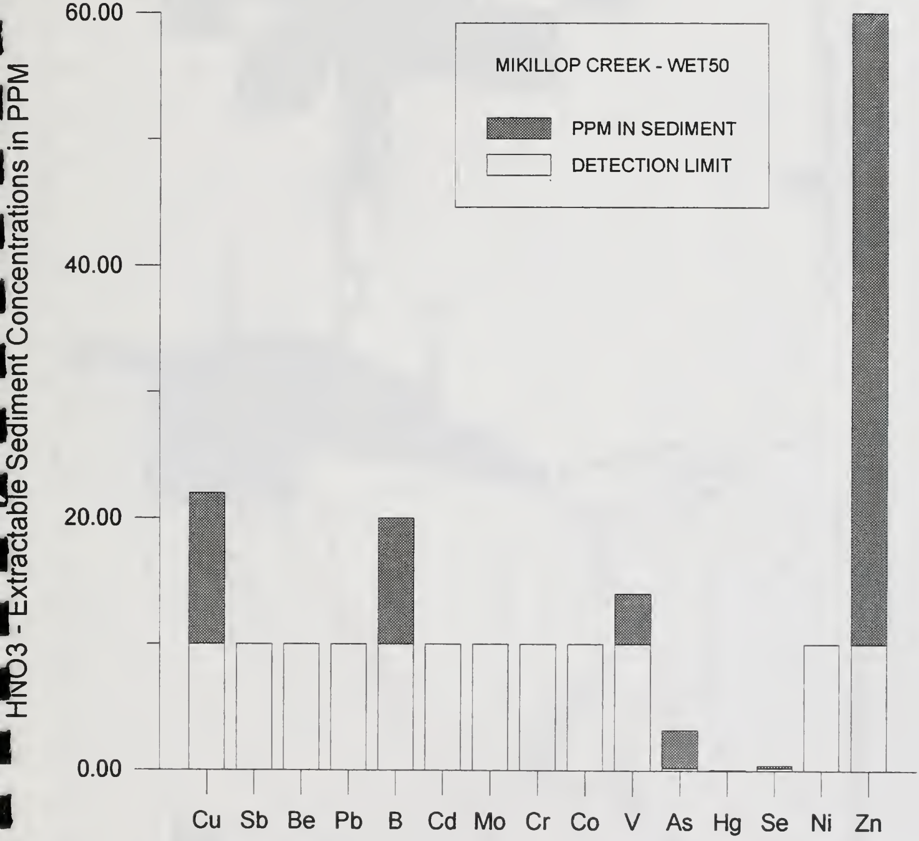
Primary bedrock geologic unit 400BELT

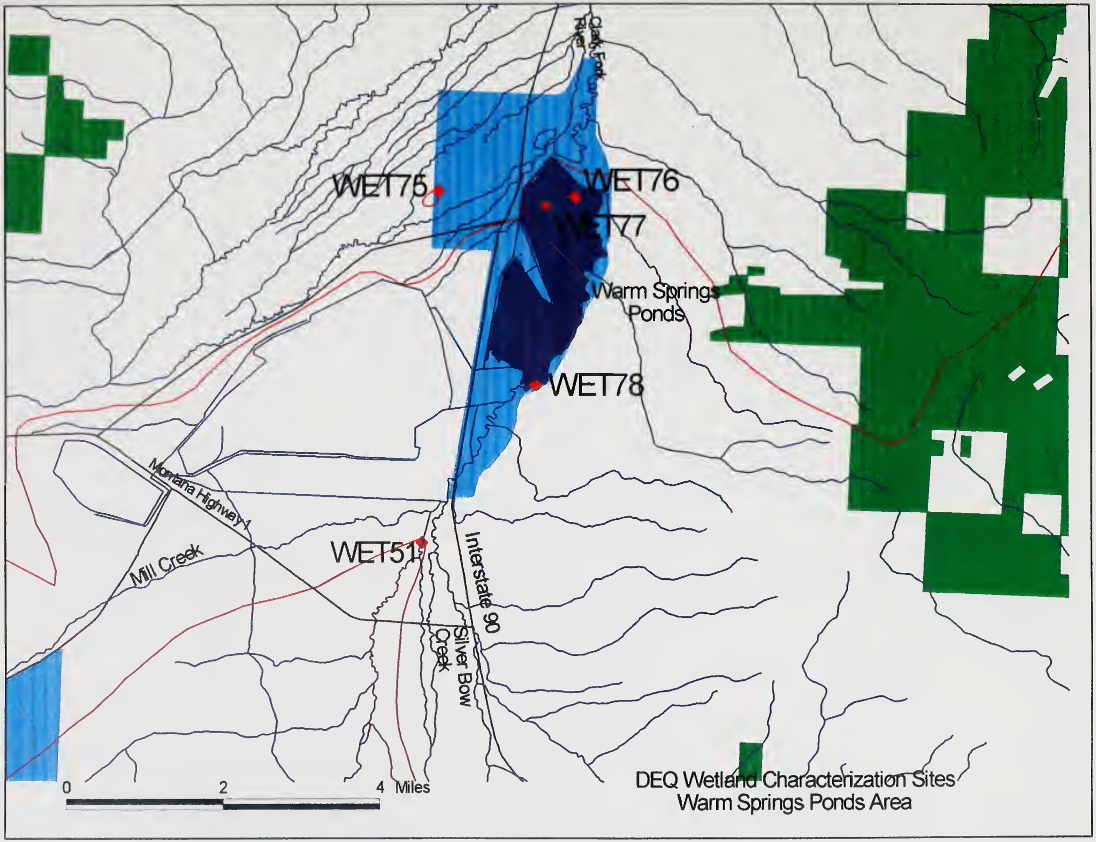


Total Annual Precipitation for Libby
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
30.00
20.00
10.00
0.00
1910
1920
1930
1940
1950
1960
1970
1980
1990


10.00
8.00
6.00
4.00
2.00
0.00
Inches Precipitation
Monthly Mean, Maximum and Minimum Precipitation
Libby Ranger Station (number)
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


McKILLOP CREEK - WET50
Total recoverable concentration in water
Detection limit
Concentrations in Milligrams per liter
0.020
0.016
0.012
0.008
0.004
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
60.00
40.00
20.00
0.00
MIKILLOP CREEK - WET50
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Sites
Warm Springs Ponds Area

Wetland: MILL-WILLOW/SILVERBOW WETLAND	Site Code: WET51
7.5 Minute Quad: OPPORTUNITY	Lat: 46 6 35 Long: 112 48 20

Mean Annual Precipitation in Inches:	11.00
Mean Annual Potential Evaporation (Penman) in Inches:	33.00
'Net Precipitation' in Inches:	-22.00

Site has a mapped surface inlet.

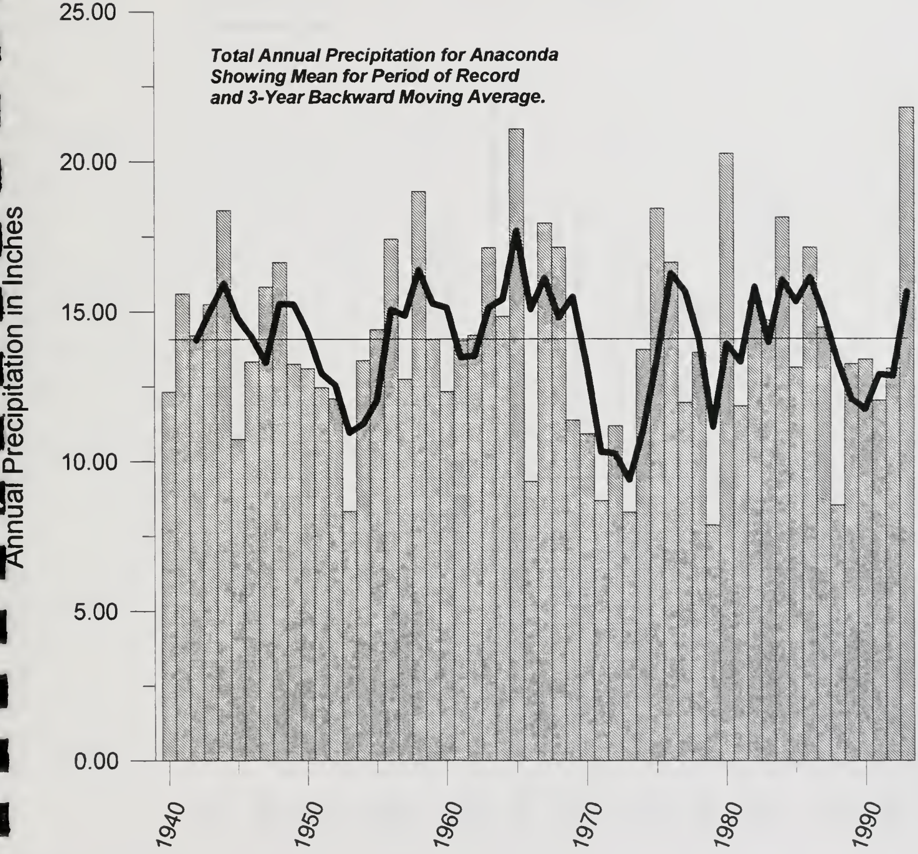
Site has a mapped surface outlet.

Site is not known to be artificially impounded.

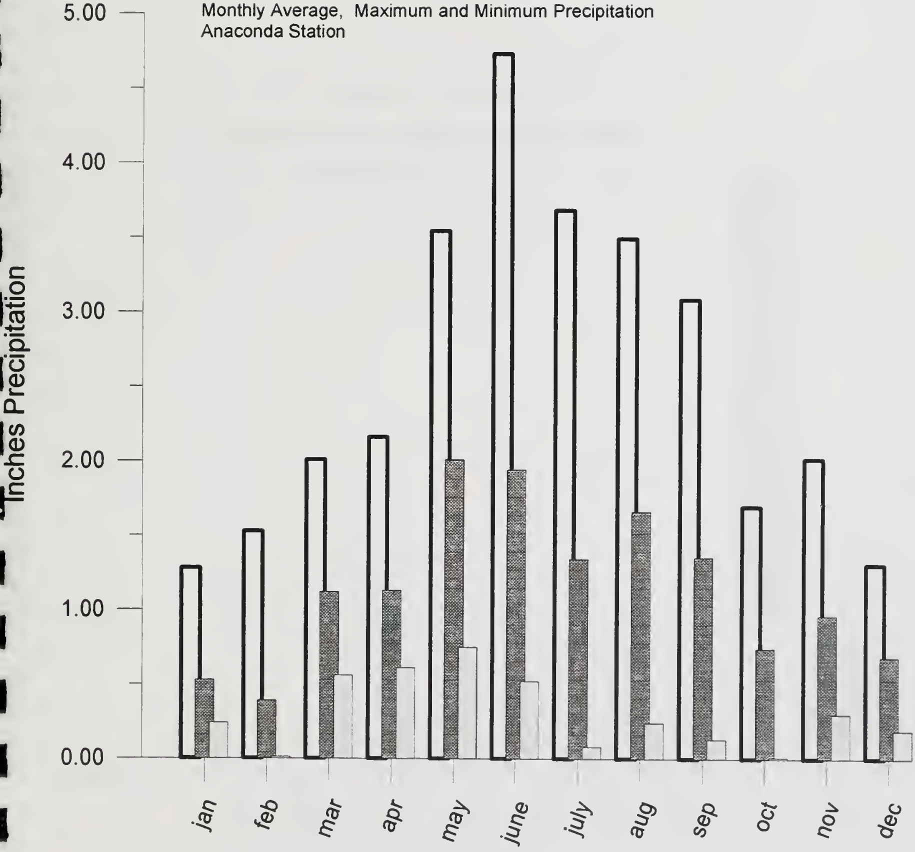
Site does not have known significant water imports.

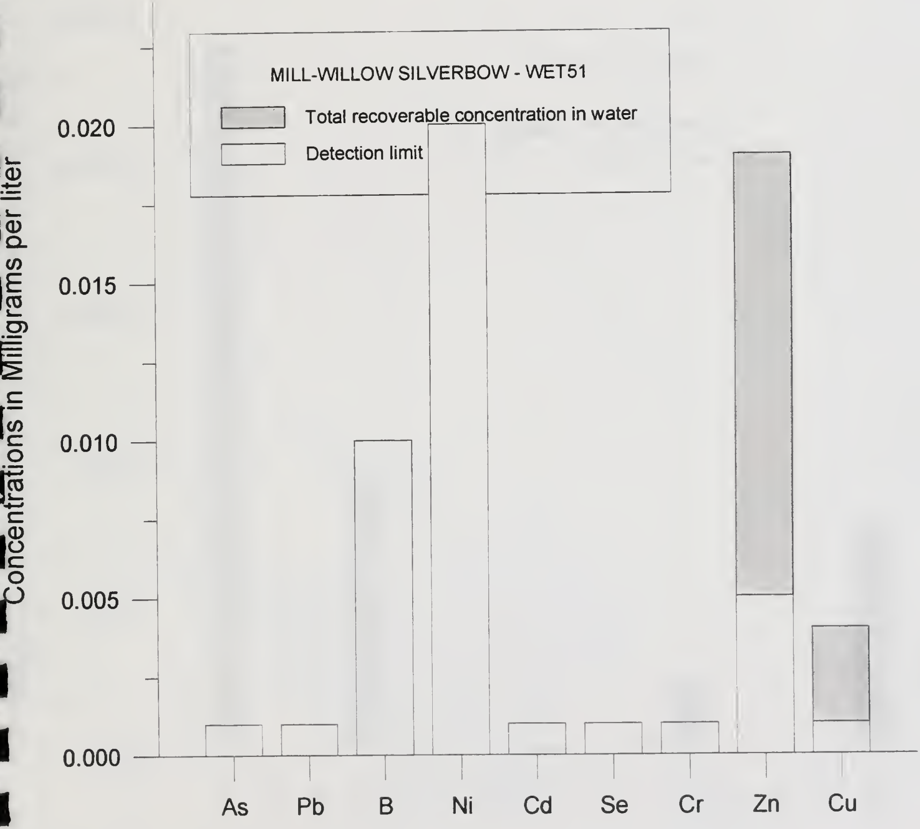
Mapped area of wetland:	150 acres
Area of contributing drainage basin:	17980 acres
Mapped elevation of wetland surface:	4820 ft
Maximum elevation within drainage basin:	7362 ft
Net relief of contributing basin:	2542 ft

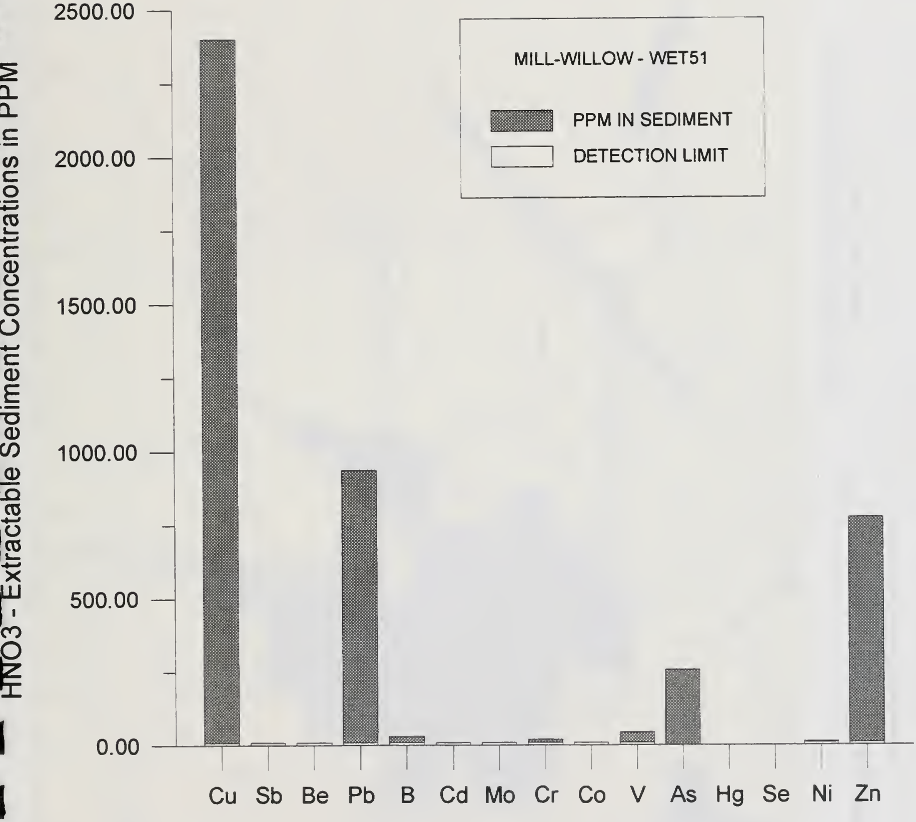
COE Hydrogeomorphic class:	RIVERINE
Primary surficial geologic unit	110ALVM
Primary bedrock geologic unit	120SDMS

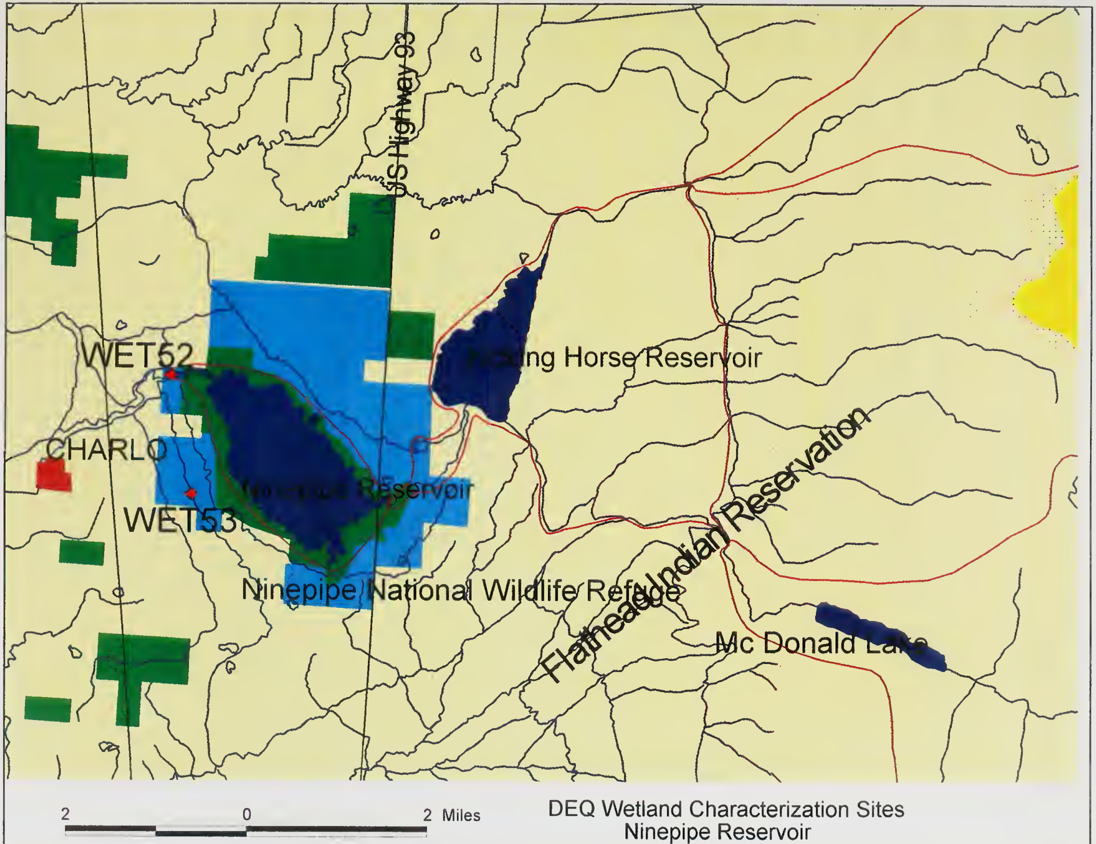


Total Annual Precipitation for Anaconda Showing Mean for Period of Record and 3-Year Backward Moving Average.

Monthly Average, Maximum and Minimum Precipitation
Anaconda Station
Inches Precipitation
5.00
4.00
3.00
2.00
1.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


MILL-WILLOW SILVERBOW - WET51
Total recoverable concentration in water
Detection limit
Concentrations in Milligrams per liter
0.020
0.015
0.010
0.005
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


MILL-WILLOW - WET51
▨ PPM IN SEDIMENT
☐ DETECTION LIMIT
HNO3 - Extractable Sediment Concentrations in PPM
2500.00
2000.00
1500.00
1000.00
500.00
0.00
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Sites
Ninepipe Reservoir

Wetland: NINEPIPE RESERVOIR OUTLET

Site Code: WET52

7.5 Minute Quad: CHARLO

Lat: 47 27 20
Long: 114 8 50

Mean Annual Precipitation in Inches:	17.00
Mean Annual Potential Evaporation (Penman) in Inches:	35.00
'Net Precipitation' in Inches:	-18.00

Site has a mapped surface inlet.

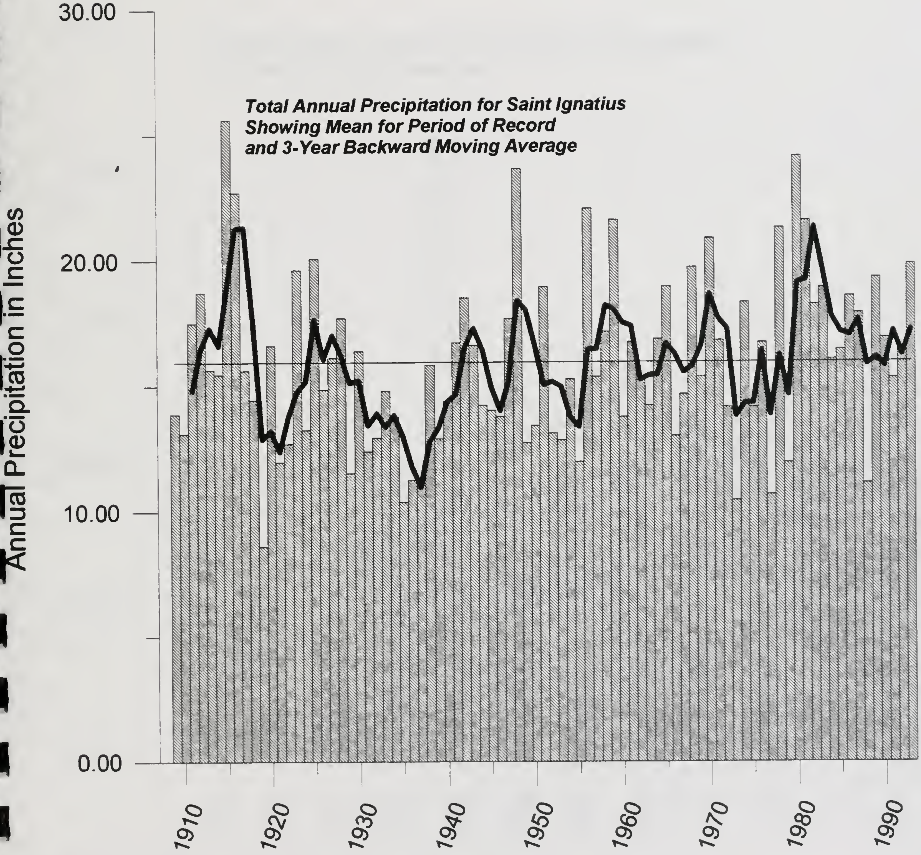
Site has a mapped surface outlet.

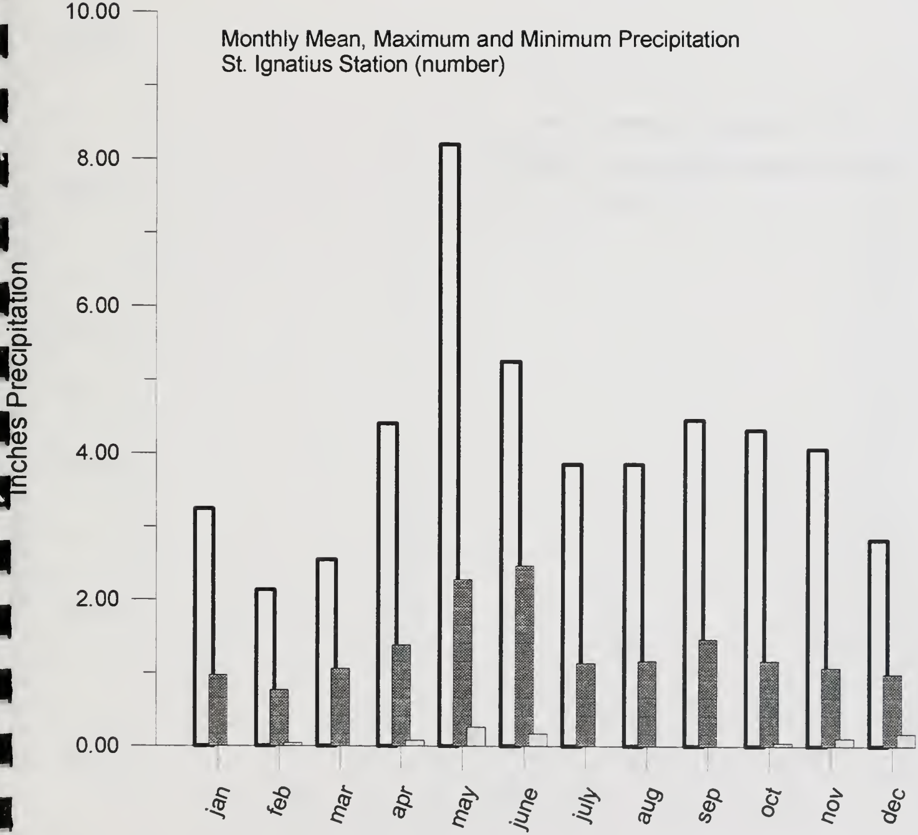
Site is artificially impounded.

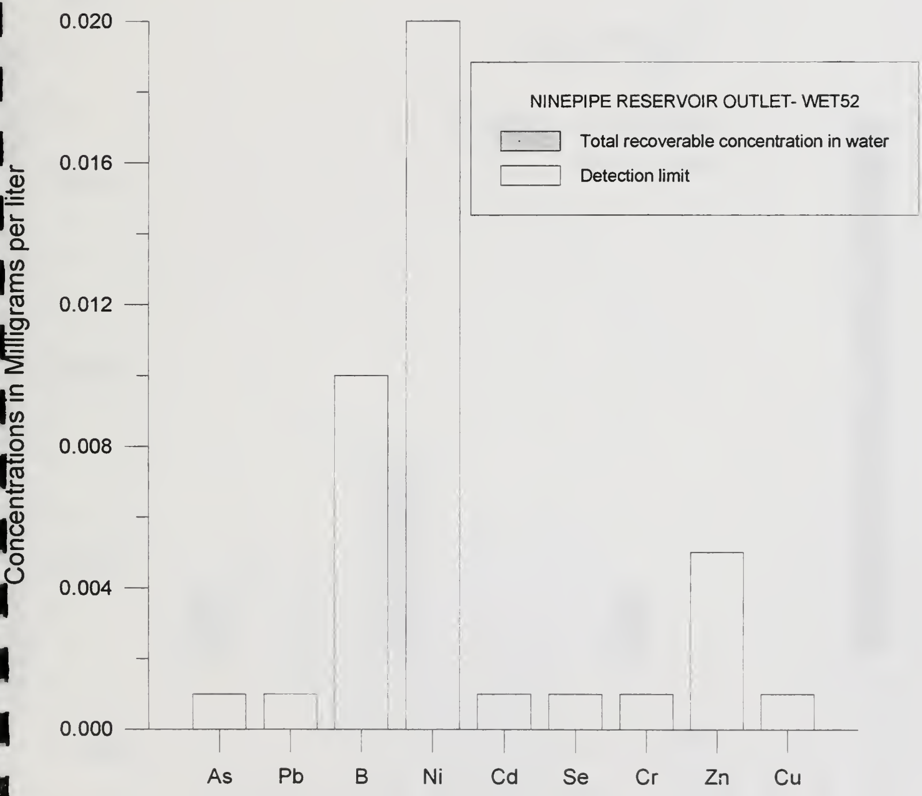
Site has significant water imports.

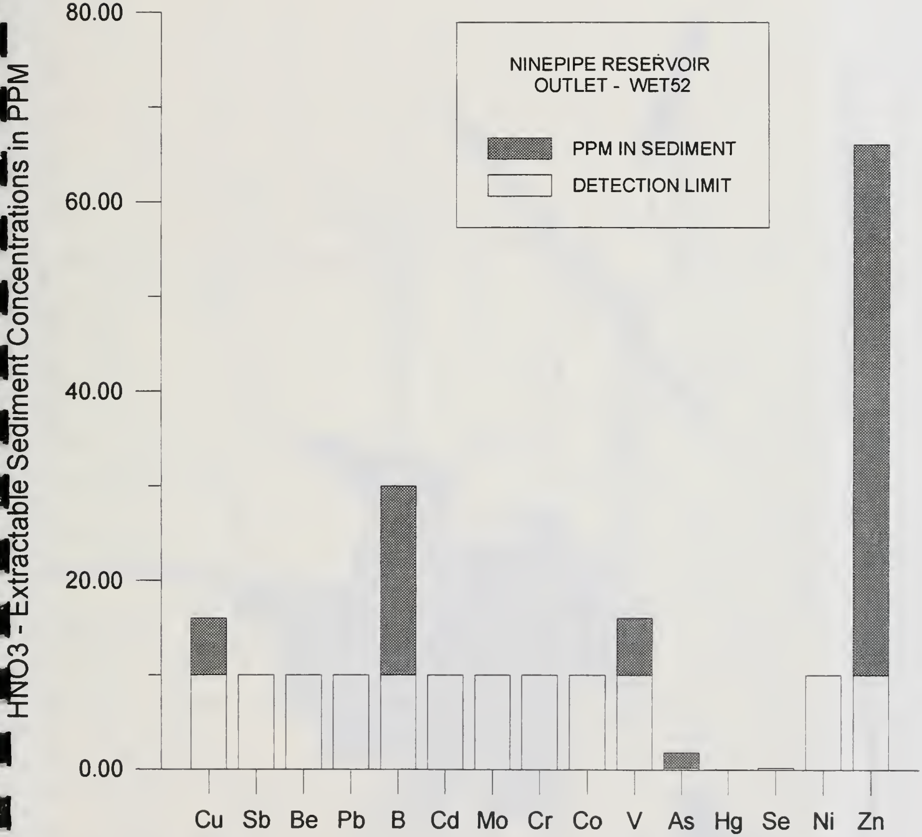
Mapped area of wetland:	100 acres
Area of contributing drainage basin:	1810 acres
Mapped elevation of wetland surface:	2980 ft
Maximum elevation within drainage basin:	9820 ft
Net relief of contributing basin:	6840 ft

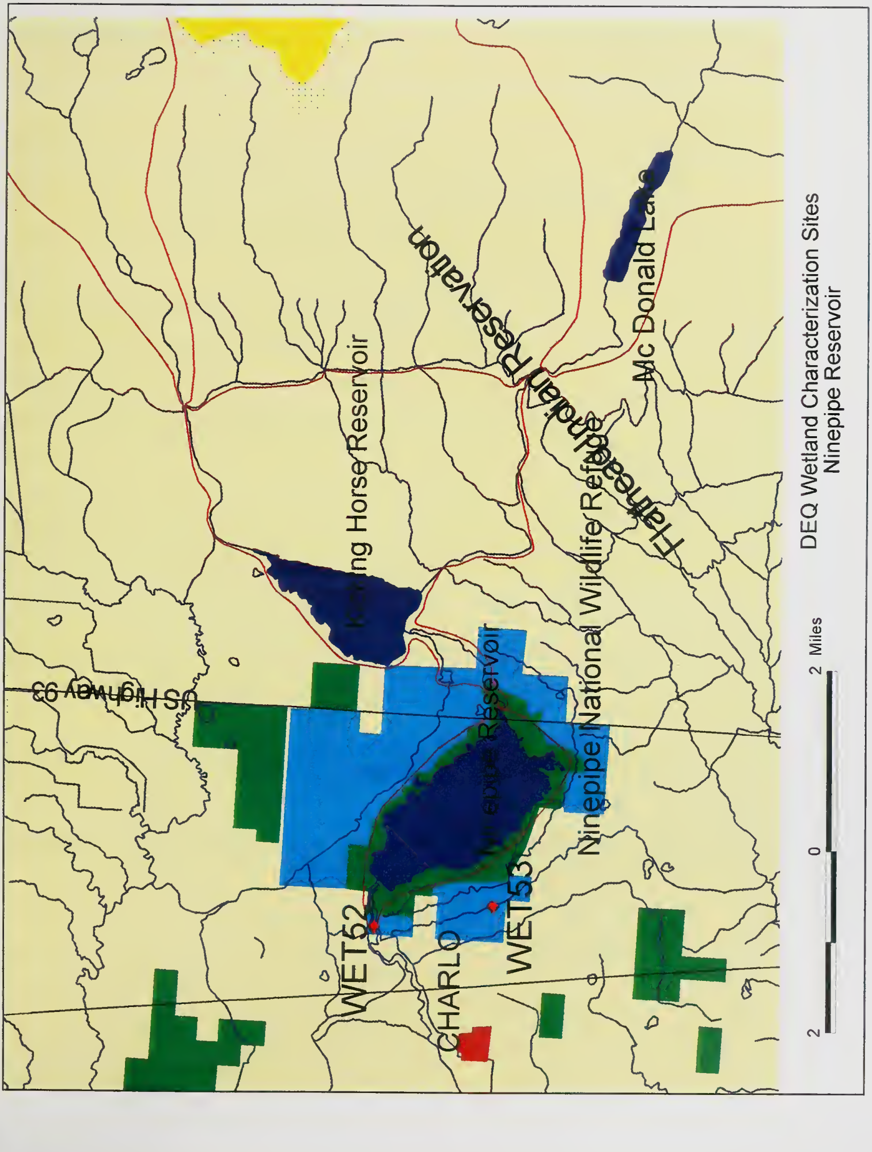
COE Hydrogeomorphic class:	RIVERINE
Primary surficial geologic unit	112DRFT
Primary bedrock geologic unit	400BELT


Total Annual Precipitation for Saint Ignatius
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
30.00
20.00
10.00
0.00
1910
1920
1930
1940
1950
1960
1970
1980
1990


Monthly Mean, Maximum and Minimum Precipitation
St. Ignatius Station (number)
Inches Precipitation
10.00
8.00
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


NINEPIPE RESERVOIR OUTLET- WET52
Total recoverable concentration in water
Detection limit
Concentrations in Milligrams per liter
0.020
0.016
0.012
0.008
0.004
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
80.00
60.00
40.00
20.00
0.00
NINEPIPE RESERVOIR
OUTLET - WET52
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Sites
Ninepipe Reservoir

Wetland: NINEPIPE RESERVOIR POTHOLE

Site Code: WET53

7.5 Minute Quad: CHARLO

Lat: 47 26 13
Long: 114 8 25

Mean Annual Precipitation in Inches: 17.00

Mean Annual Potential Evaporation (Penman) in Inches: 32.00

'Net Precipitation' in Inches: -15.00

Site does not have a mapped surface inlet.

Site does not have a mapped surface outlet.

Site is not known to be artificially impounded.

Site does not have known significant water imports.

Mapped area of wetland: 0 acres

Area of contributing drainage basin: 3 acres

Mapped elevation of wetland surface: 2970 ft

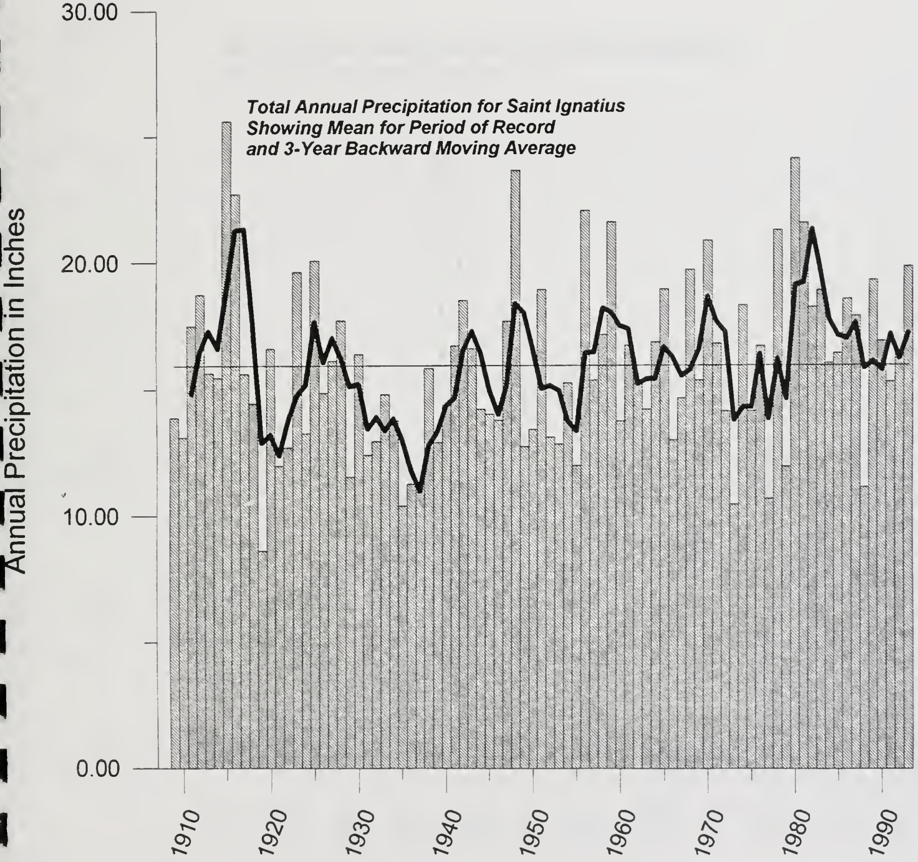
Maximum elevation within drainage basin: 3005 ft

Net relief of contributing basin: 35 ft

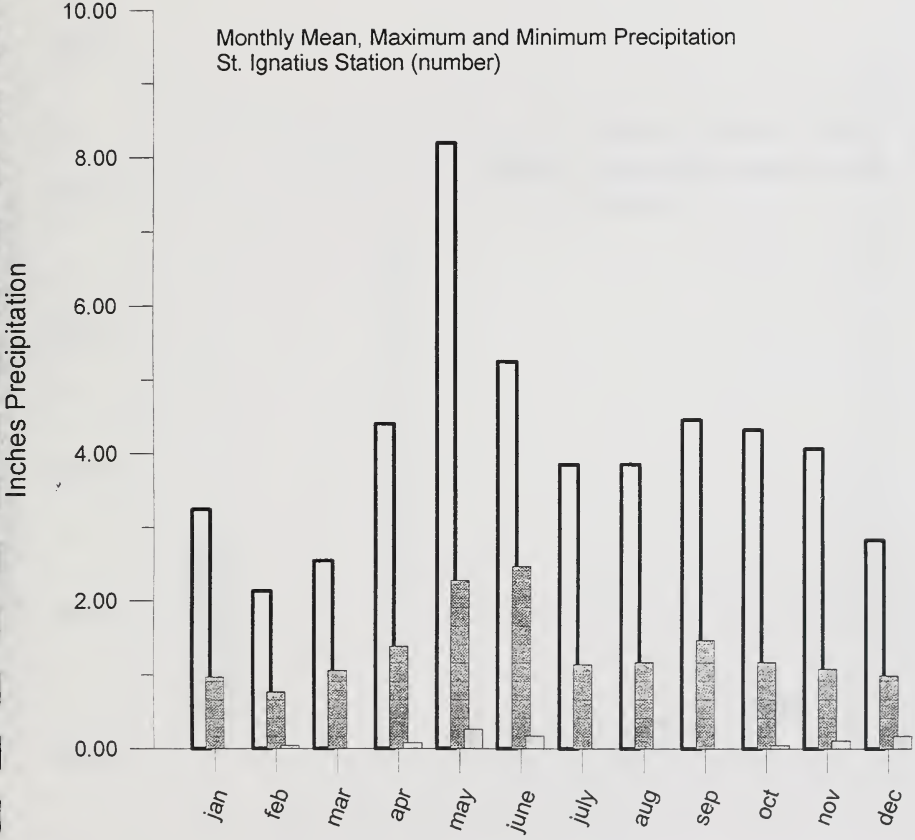
COE Hydrogeomorphic class: DEPRESSIONAL

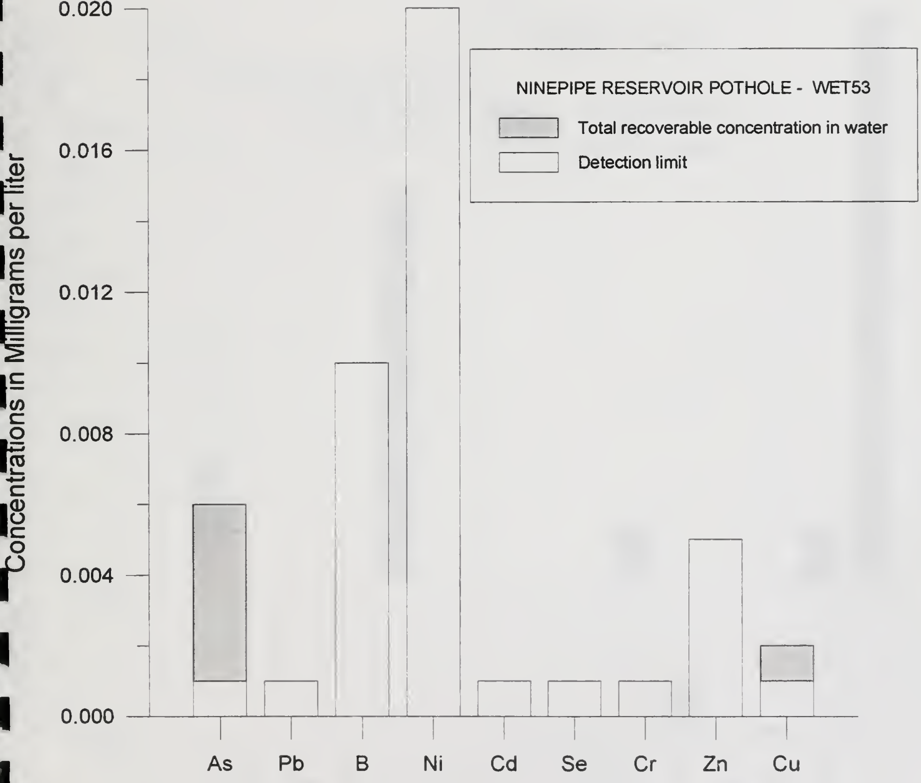
Primary surficial geologic unit 112DRFT

Primary bedrock geologic unit 400BELT

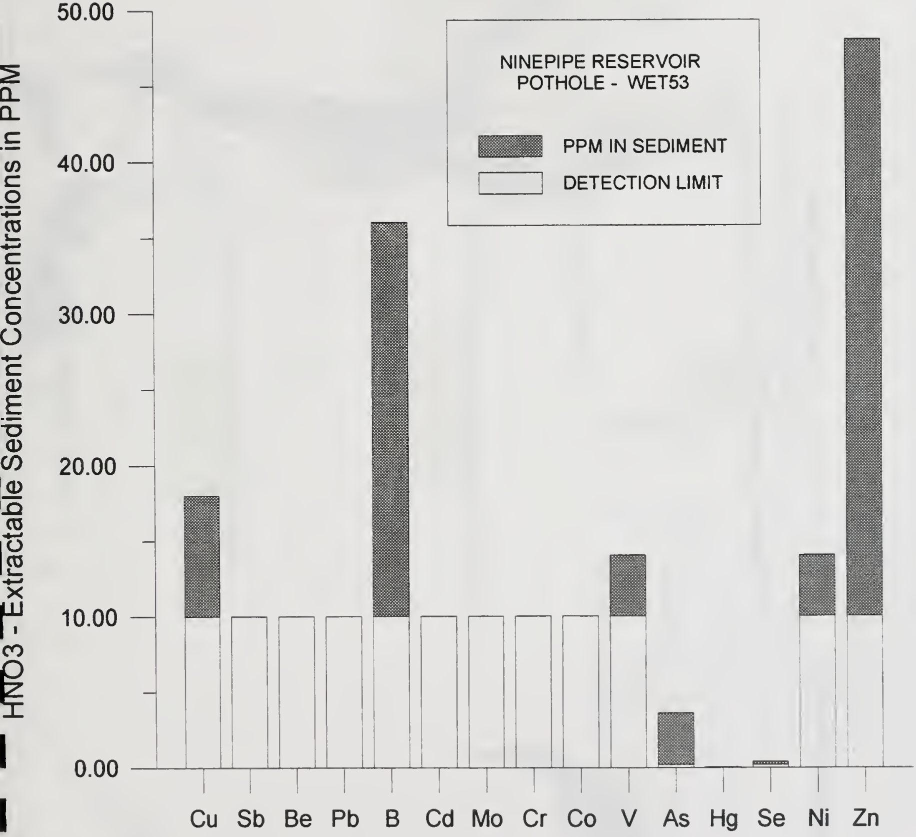


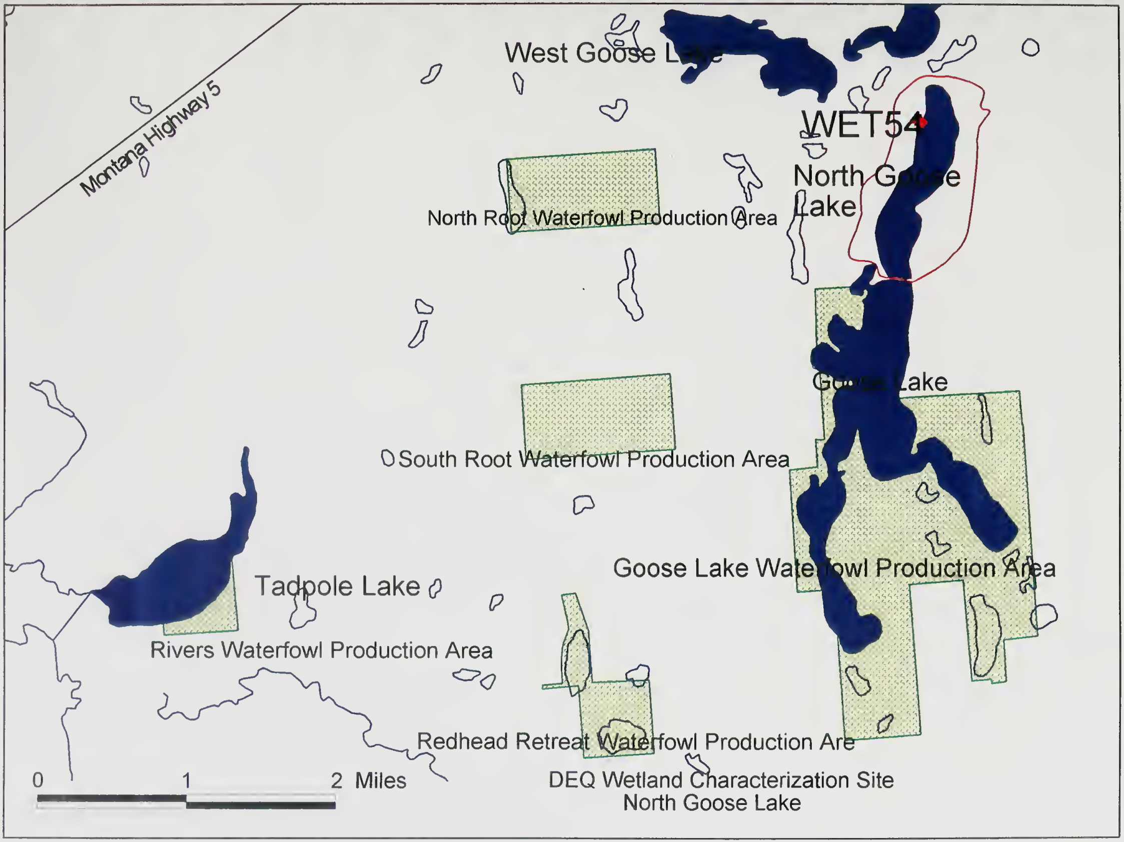
Total Annual Precipitation for Saint Ignatius Showing Mean for Period of Record and 3-Year Backward Moving Average


Monthly Mean, Maximum and Minimum Precipitation
St. Ignatius Station (number)
Inches Precipitation
10.00
8.00
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec



Concentrations in Milligrams per liter
0.020
0.016
0.012
0.008
0.004
0.000
NINEPIPE RESERVOIR POTHOLE - WET53
Total recoverable concentration in water
Detection limit
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


NINEPIPE RESERVOIR
POTHOLE - WET53
PPM IN SEDIMENT
DETECTION LIMIT
HNO3 - Extractable Sediment Concentrations in PPM
50.00
40.00
30.00
20.00
10.00
0.00
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn


West Goose Lake
WET54
North Goose Lake
North Root Waterfowl Production Area
Montana Highway 5
Goose Lake
South Root Waterfowl Production Area
Goose Lake Waterfowl Production Area
Tadpole Lake
Rivers Waterfowl Production Area
Redhead Retreat Waterfowl Production Are
0
1
2 Miles

DEQ Wetland Characterization Site
North Goose Lake

Wetland: NORTH GOOSE LAKE

Site Code: WET54

7.5 Minute Quad: WESTBY SOUTH

Lat: 48 50 25
Long: 104 3 35

Mean Annual Precipitation in Inches: 15.00

Mean Annual Potential Evaporation (Penman) in Inches: 36.00

'Net Precipitation' in Inches: -21.00

Site does not have a mapped surface inlet.

Site does not have a mapped surface outlet.

Site is not known to be artificially impounded.

Site does not have known significant water imports.

Mapped area of wetland: 190 acres

Area of contributing drainage basin: 540 acres

Mapped elevation of wetland surface: 2049 ft

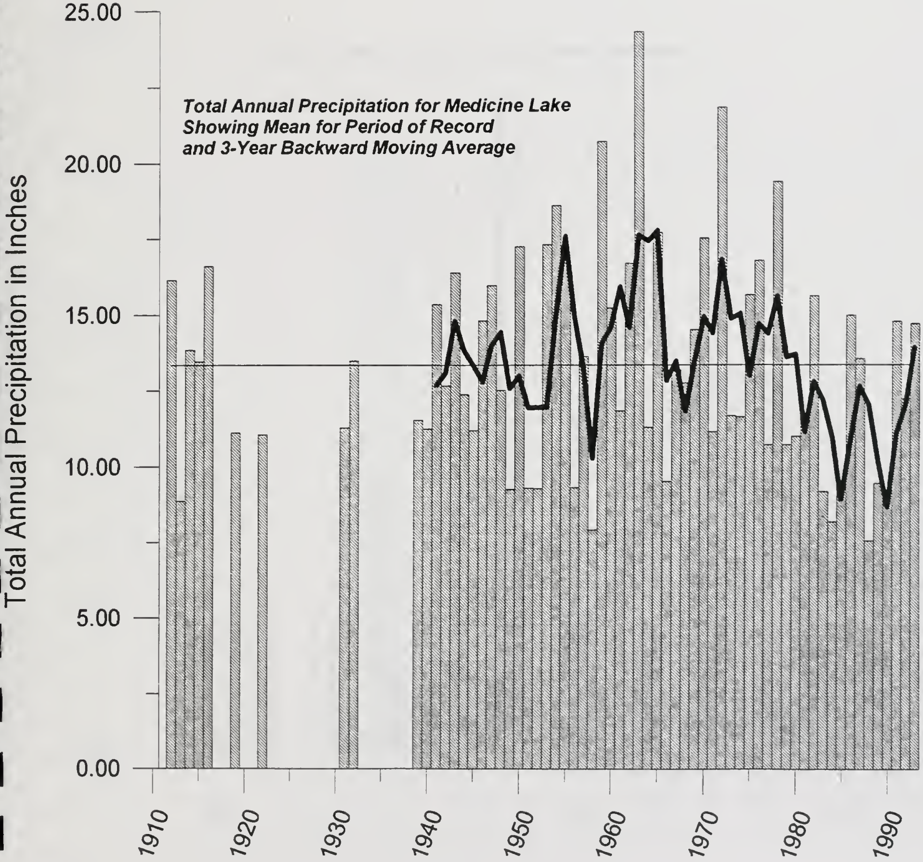
Maximum elevation within drainage basin: 2120 ft

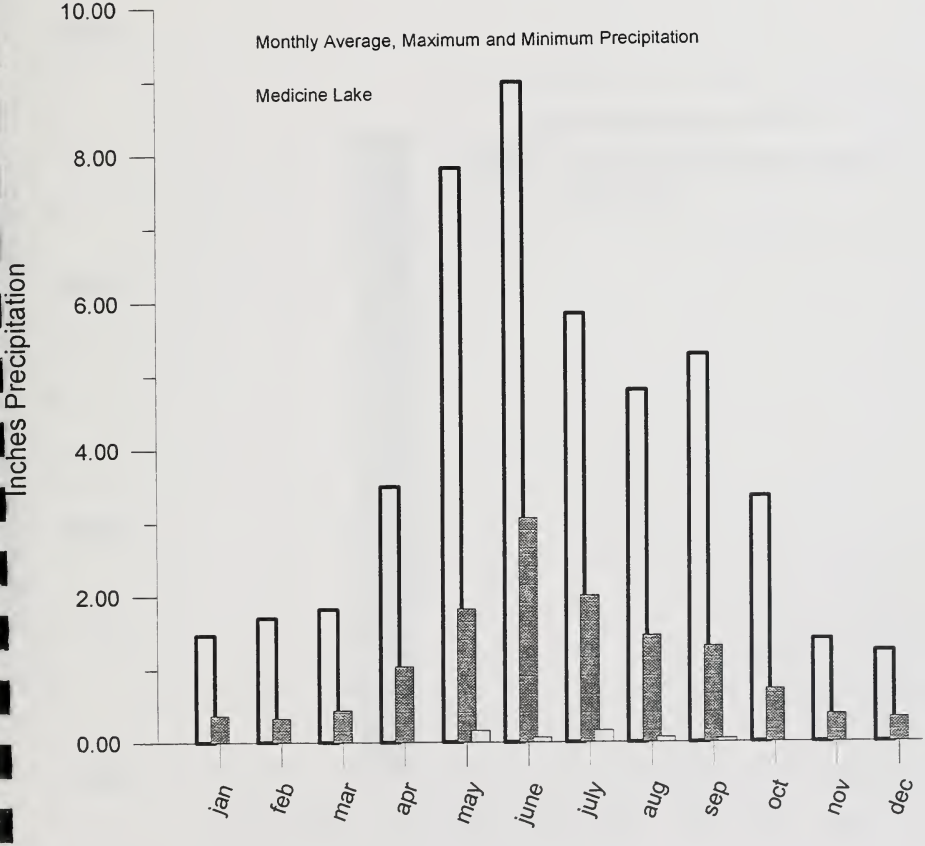
Net relief of contributing basin: 71 ft

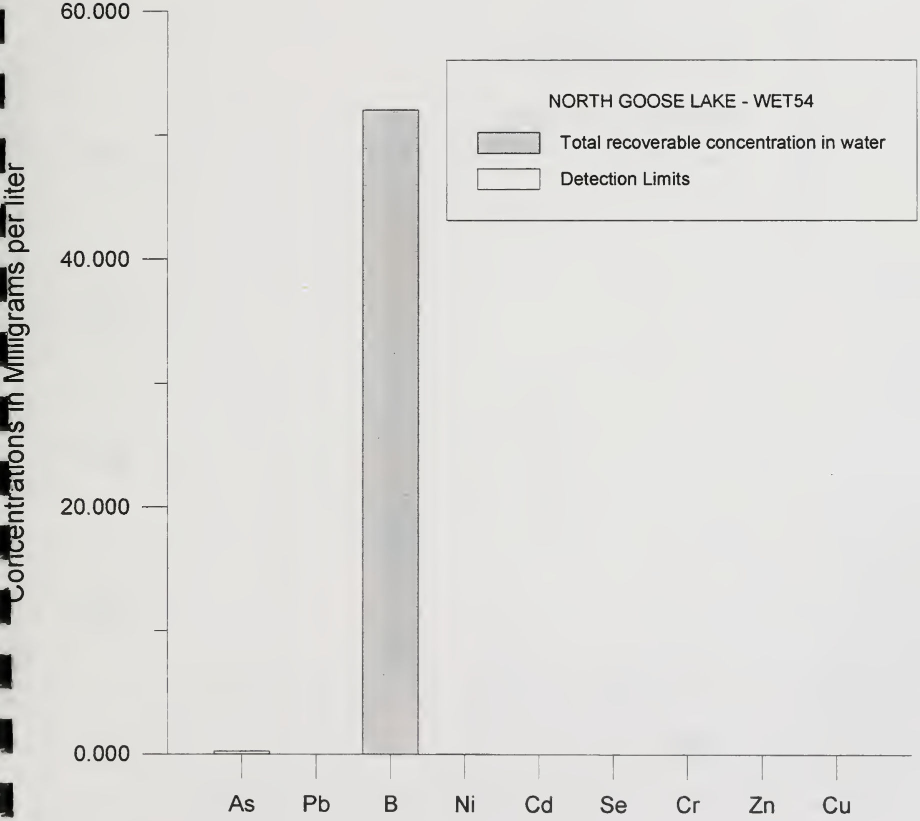
COE Hydrogeomorphic class: FRINGE

Primary surficial geologic unit 112OTSH

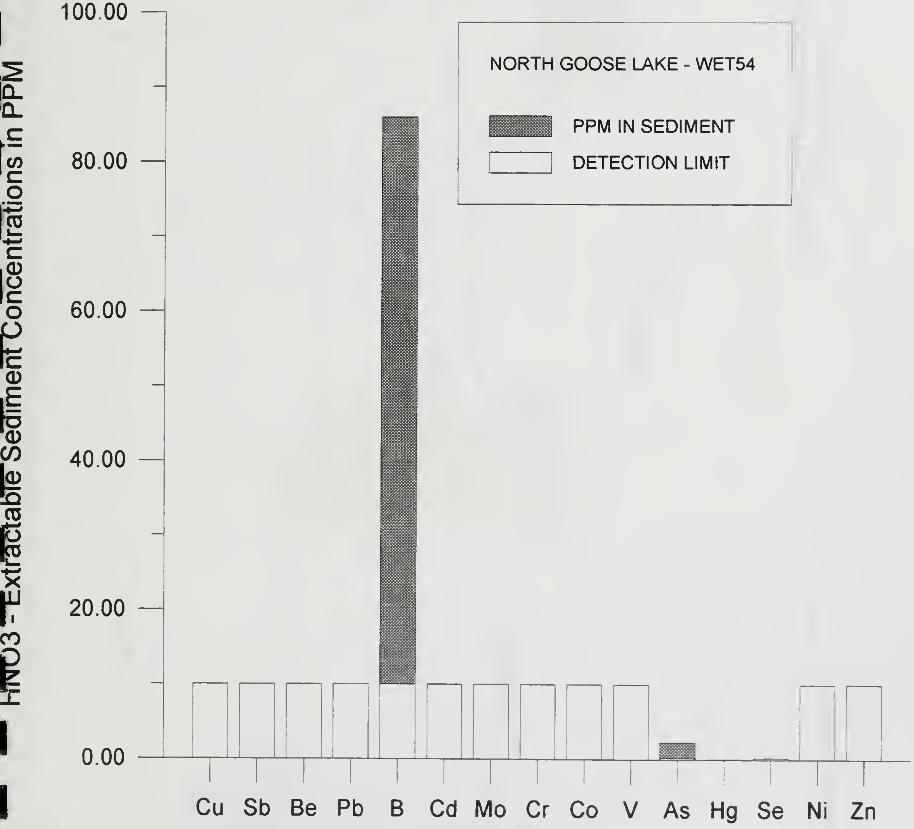
Primary bedrock geologic unit 125FRUN

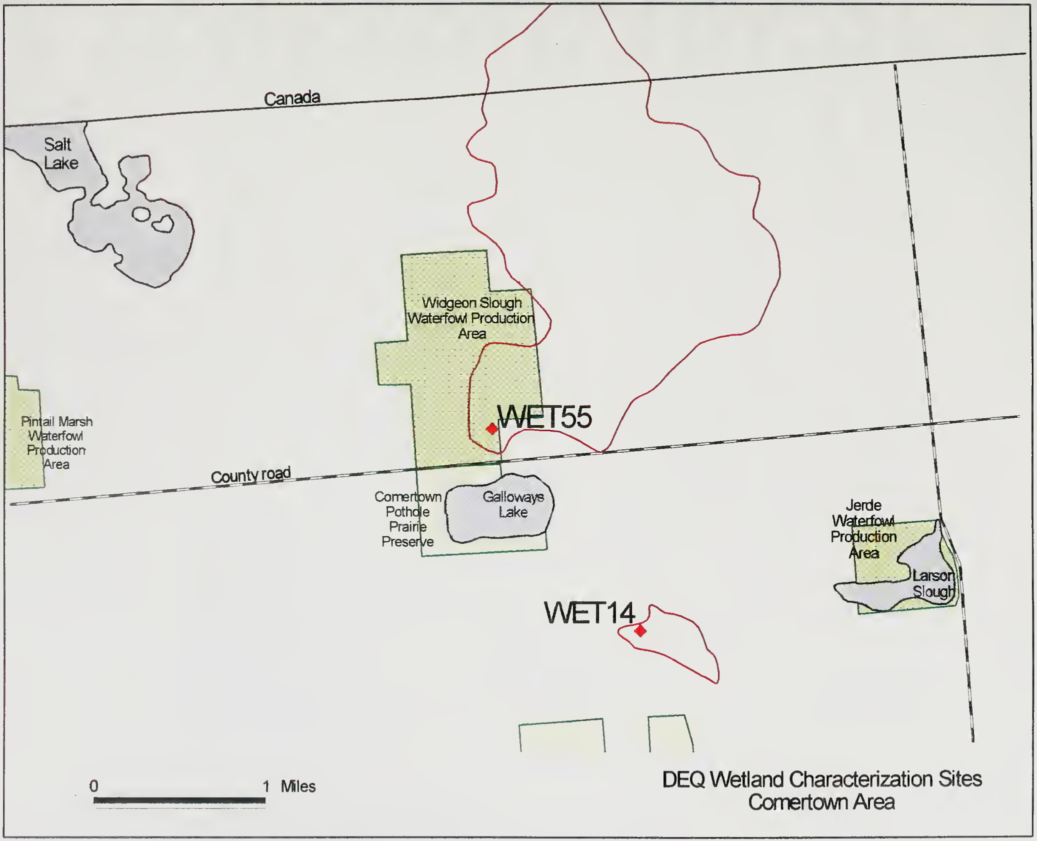

Total Annual Precipitation for Medicine Lake
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Total Annual Precipitation in Inches
25.00
20.00
15.00
10.00
5.00
0.00
1910
1920
1930
1940
1950
1960
1970
1980
1990


Monthly Average, Maximum and Minimum Precipitation
Medicine Lake
Inches Precipitation
10.00
8.00
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec



60.000
40.000
20.000
0.000
Concentrations in Milligrams per liter
NORTH GOOSE LAKE - WET54
Total recoverable concentration in water
Detection Limits
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
100.00
80.00
60.00
40.00
20.00
0.00
NORTH GOOSE LAKE - WET54
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn


Canada
Salt Lake
Pintail Marsh Waterfowl Production Area
County road
Widgeon Slough Waterfowl Production Area
WET55
Comertown Pothole Prairie Preserve
Galloways Lake
Jerde Waterfowl Production Area
Larson Slough
WET14
0
1 Miles

DEQ Wetland Characterization Sites
Comertown Area

Wetland: NORTH WIDGEON SLOUGH WPA

Site Code: WET55

7.5 Minute Quad: LONE TREE LAKE

Lat: 48 58 10
Long: 104 14 45

Mean Annual Precipitation in Inches: 15.00

Mean Annual Potential Evaporation (Penman) in Inches: 35.00

'Net Precipitation' in Inches: -20.00

Site has a mapped surface inlet.

Site does not have a mapped surface outlet.

Site is not known to be artificially impounded.

Site does not have known significant water imports.

Mapped area of wetland: 73 acres

Area of contributing drainage basin: 1890 acres

Mapped elevation of wetland surface: 2169 ft

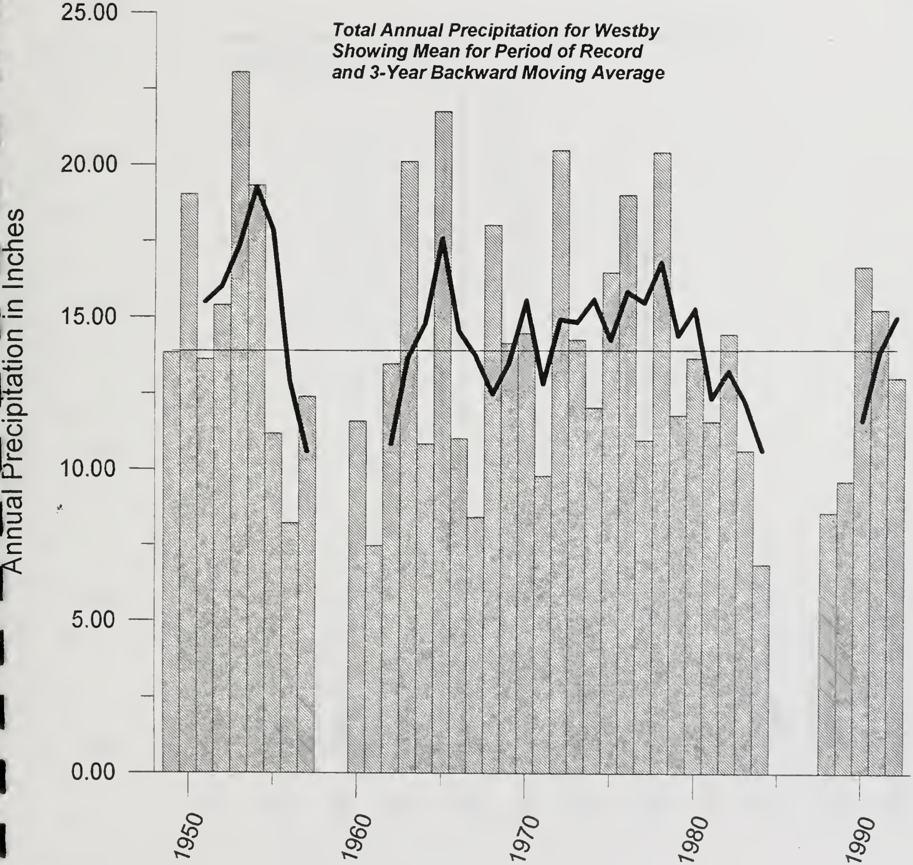
Maximum elevation within drainage basin: 2355 ft

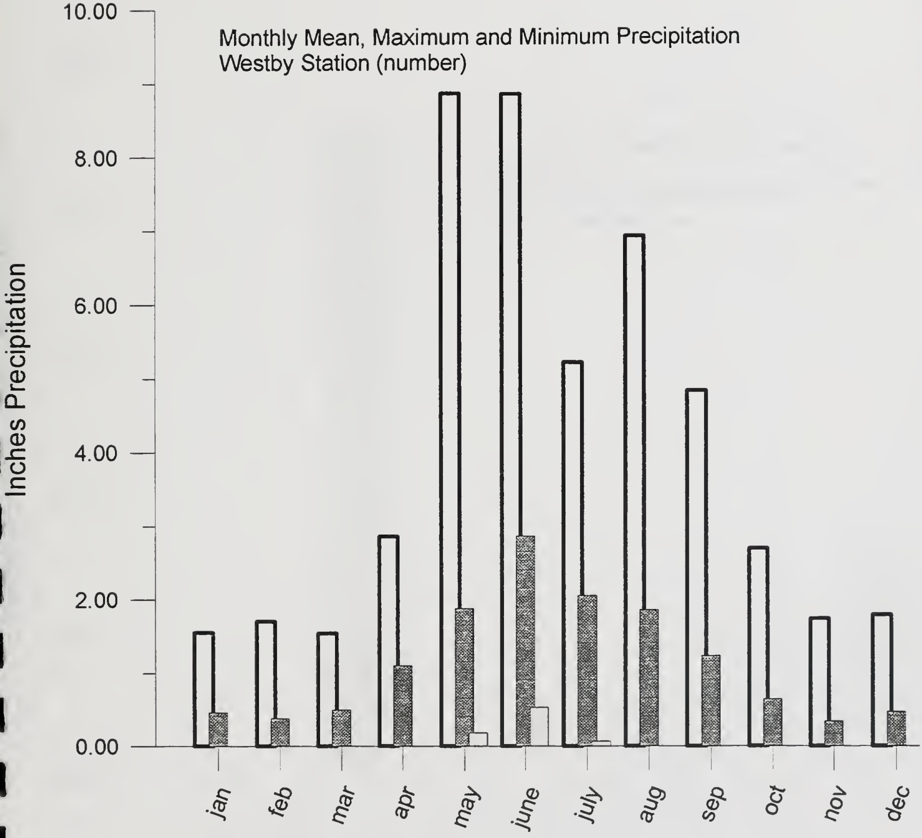
Net relief of contributing basin: 186 ft

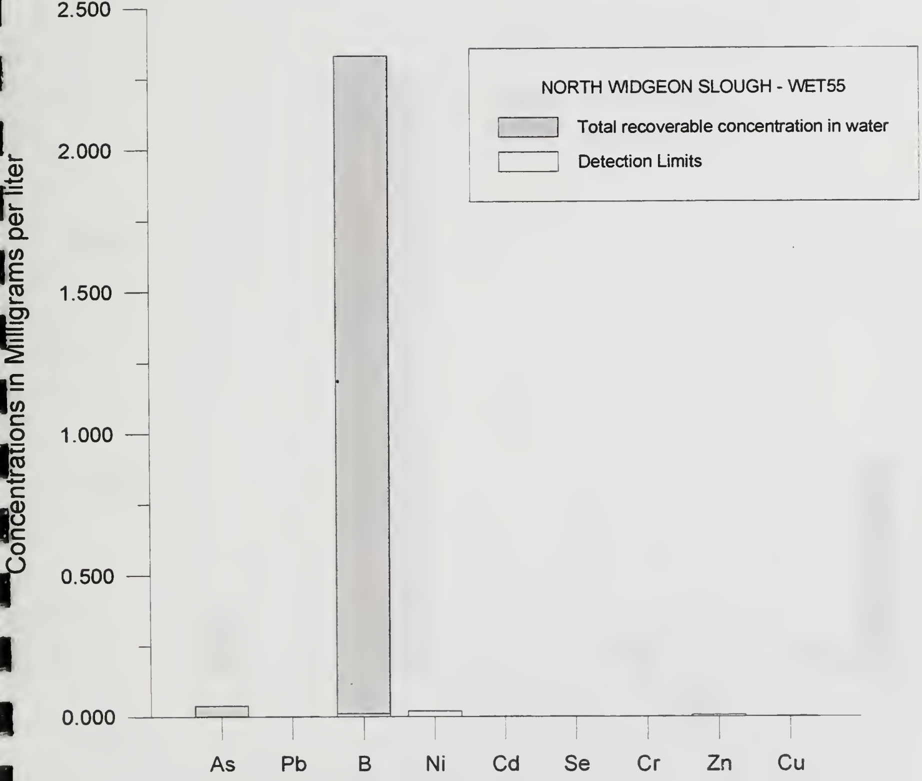
COE Hydrogeomorphic class: DEPRESSIONAL

Primary surficial geologic unit 112TILL

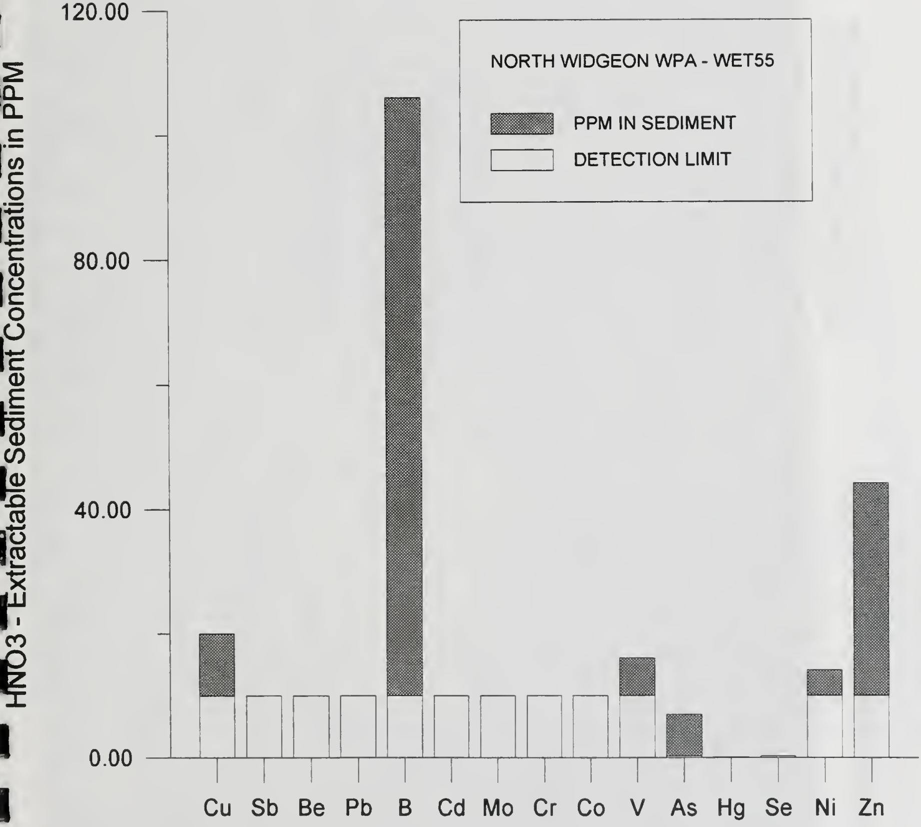
Primary bedrock geologic unit 125FRUN

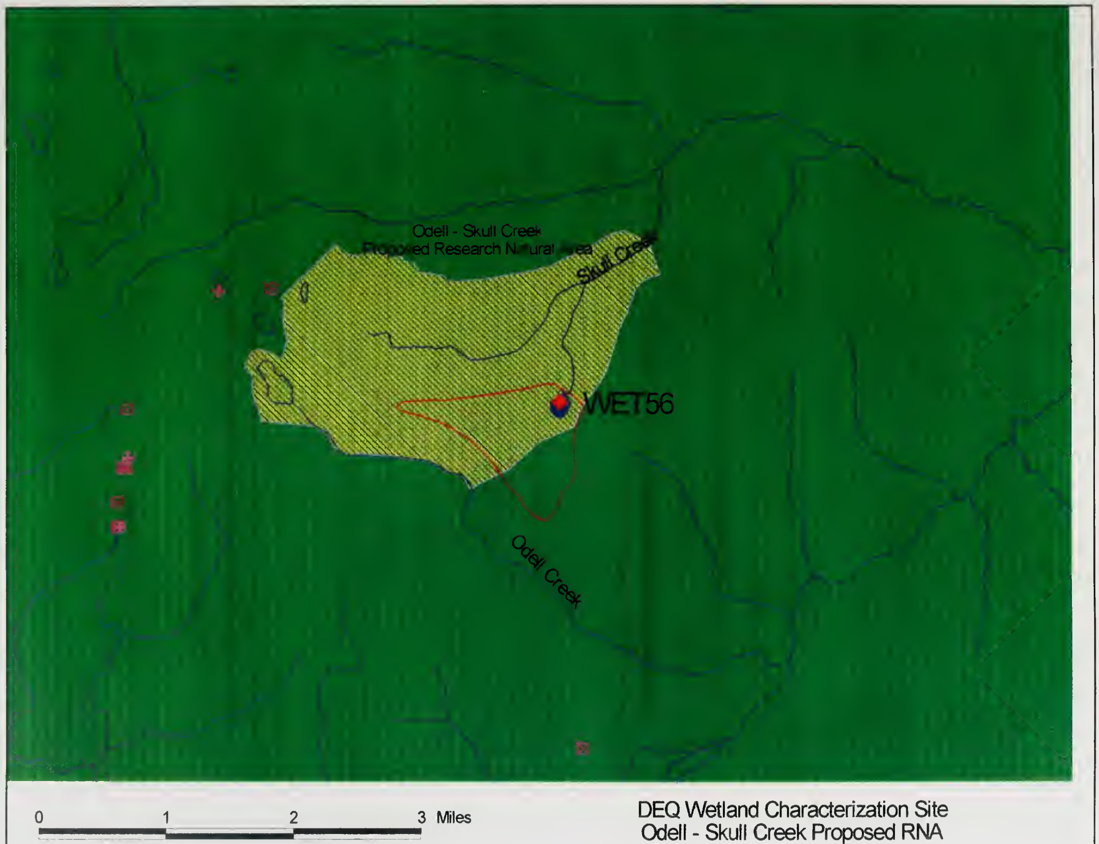

Total Annual Precipitation for Westby
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
25.00
20.00
15.00
10.00
5.00
0.00
1950
1960
1970
1980
1990


Monthly Mean, Maximum and Minimum Precipitation
Westby Station (number)
Inches Precipitation
10.00
8.00
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec



NORTH WIDGEON SLOUGH - WET55
Total recoverable concentration in water
Detection Limits
Concentrations in Milligrams per liter
2.500
2.000
1.500
1.000
0.500
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
120.00
80.00
40.00
0.00
NORTH WIDGEON WPA - WET55
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Site
Odell - Skull Creek Proposed RNA

Wetland: O'DELL-SKULL CREEK PROPOSED RNA Site Code: WET56

7.5 Minute Quad: ODELL LAKE

Lat: 45 34 22
Long: 113 11 25

Mean Annual Precipitation in Inches: 25.00

Mean Annual Potential Evaporation (Penman) in Inches: 29.00

'Net Precipitation' in Inches: -4.00

Site does not have a mapped surface inlet.

Site has a mapped surface outlet.

Site is not known to be artificially impounded.

Site does not have known significant water imports.

Mapped area of wetland: 13 acres

Area of contributing drainage basin: 470 acres

Mapped elevation of wetland surface: 7875 ft

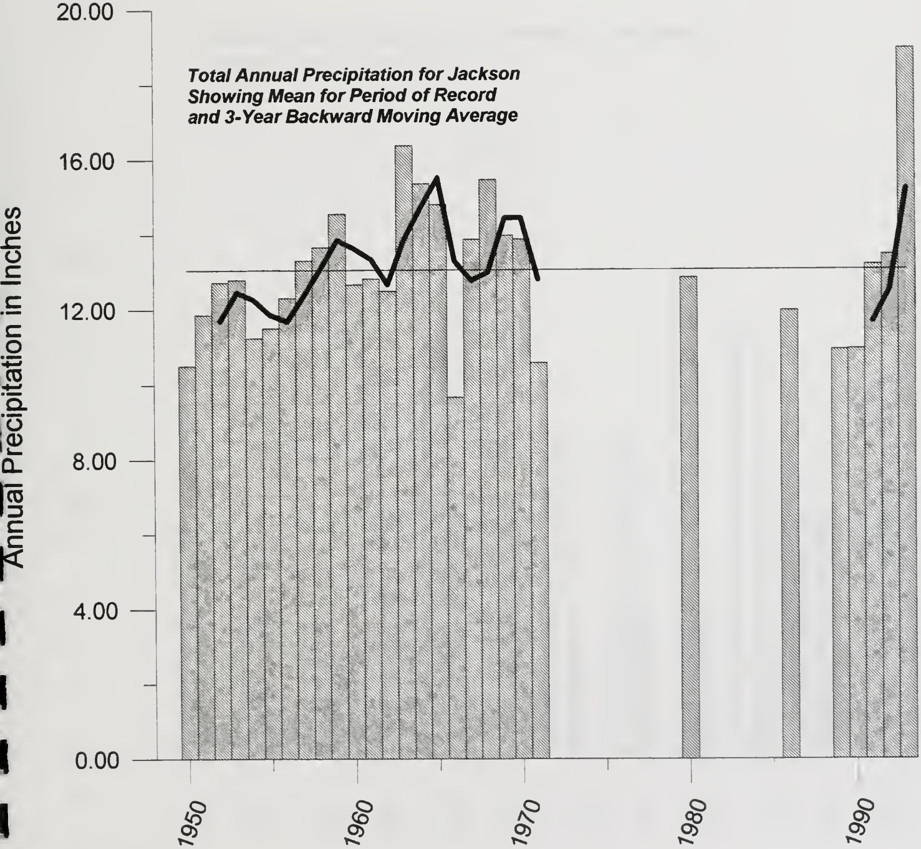
Maximum elevation within drainage basin: 8470 ft

Net relief of contributing basin: 595 ft

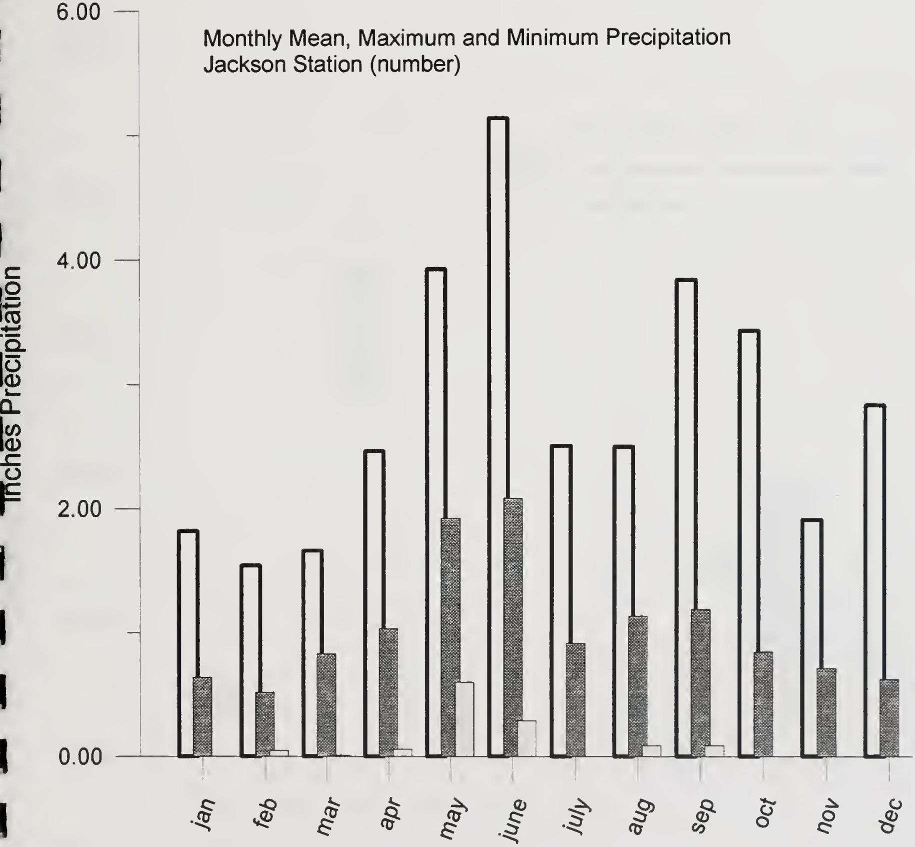
COE Hydrogeomorphic class: RIVERINE

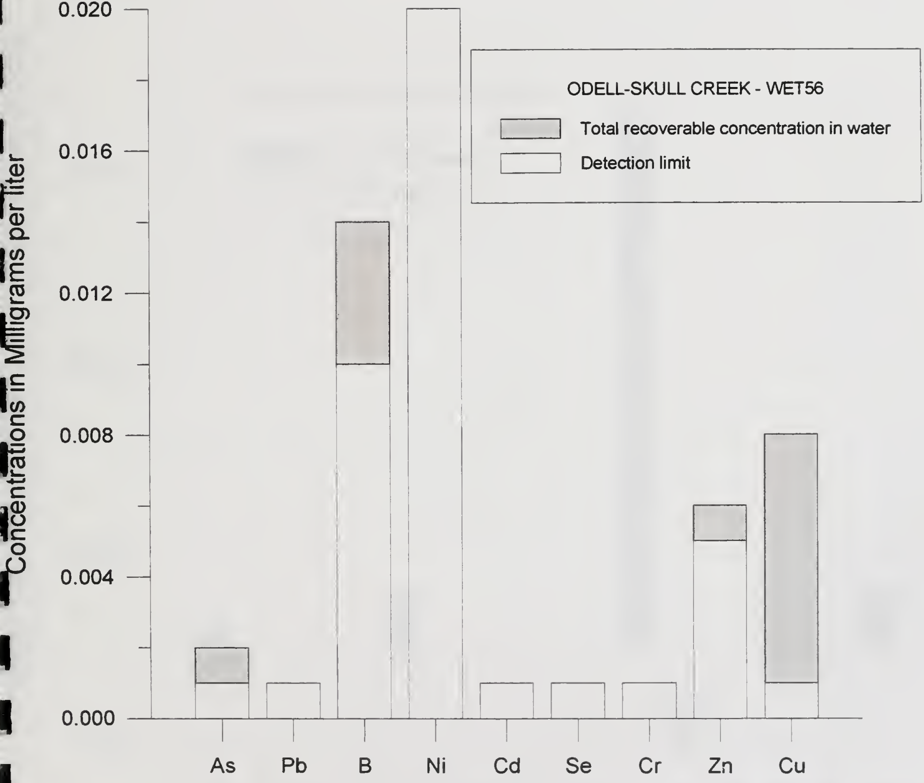
Primary surficial geologic unit 112TILL

Primary bedrock geologic unit 400MSSL

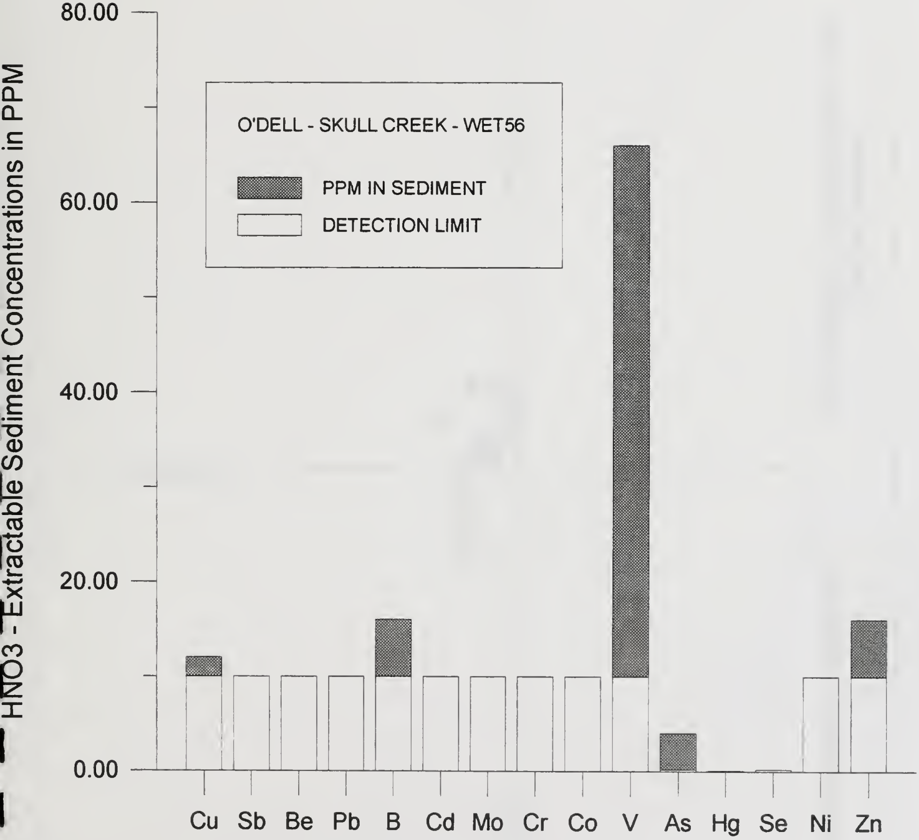


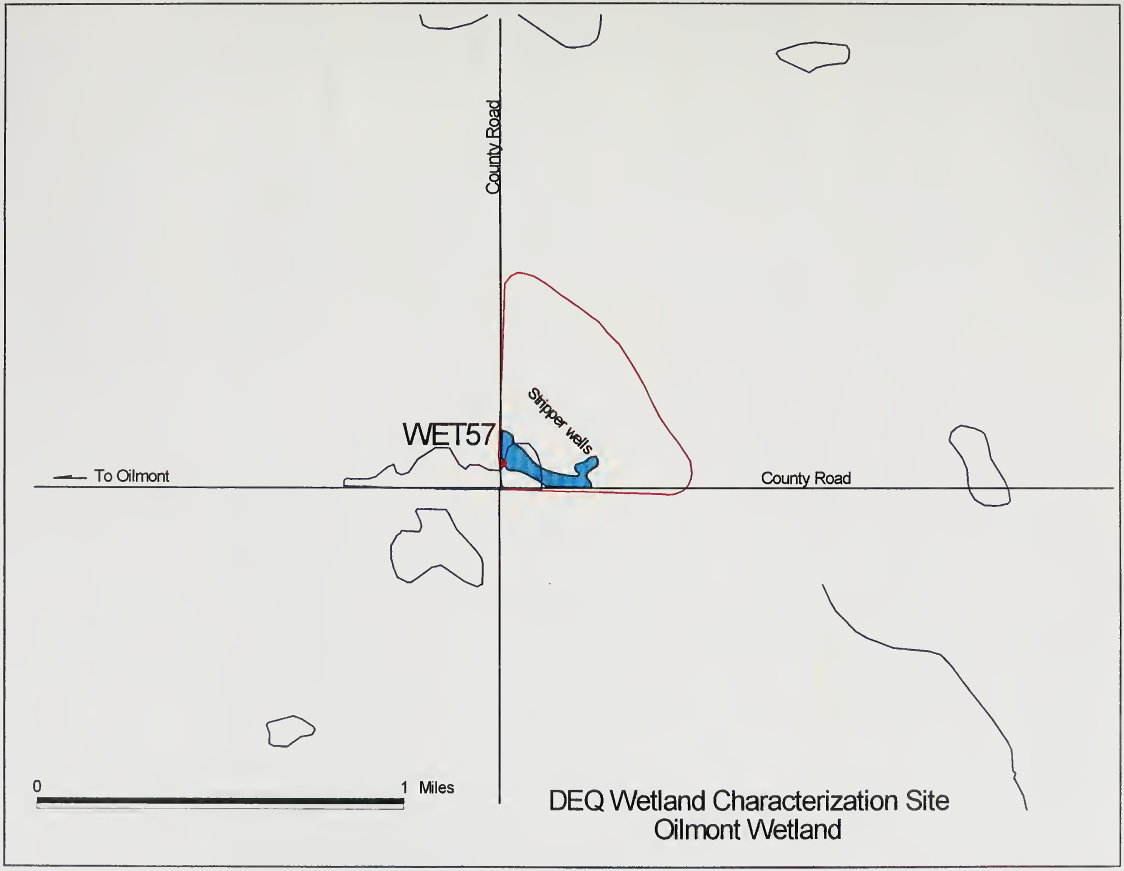
Total Annual Precipitation for Jackson
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
20.00
16.00
12.00
8.00
4.00
0.00
1950
1960
1970
1980
1990

Monthly Mean, Maximum and Minimum Precipitation
Jackson Station (number)
Inches Precipitation
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec



Concentrations in Milligrams per liter
0.020
0.016
0.012
0.008
0.004
0.000
ODELL-SKULL CREEK - WET56
Total recoverable concentration in water
Detection limit
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu




County Road
Stripper wells
WET57
To Oilmont
County Road
0
1 Miles
DEQ Wetland Characterization Site
Oilmont Wetland

Wetland: OILMONT WETLAND	Site Code: WET57
7.5 Minute Quad: OILMONT	Lat: 48 44 27 Long: 111 47 45

Mean Annual Precipitation in Inches:	11.00
Mean Annual Potential Evaporation (Penman) in Inches:	38.00
'Net Precipitation' in Inches:	-27.00

Site does not have a mapped surface inlet.

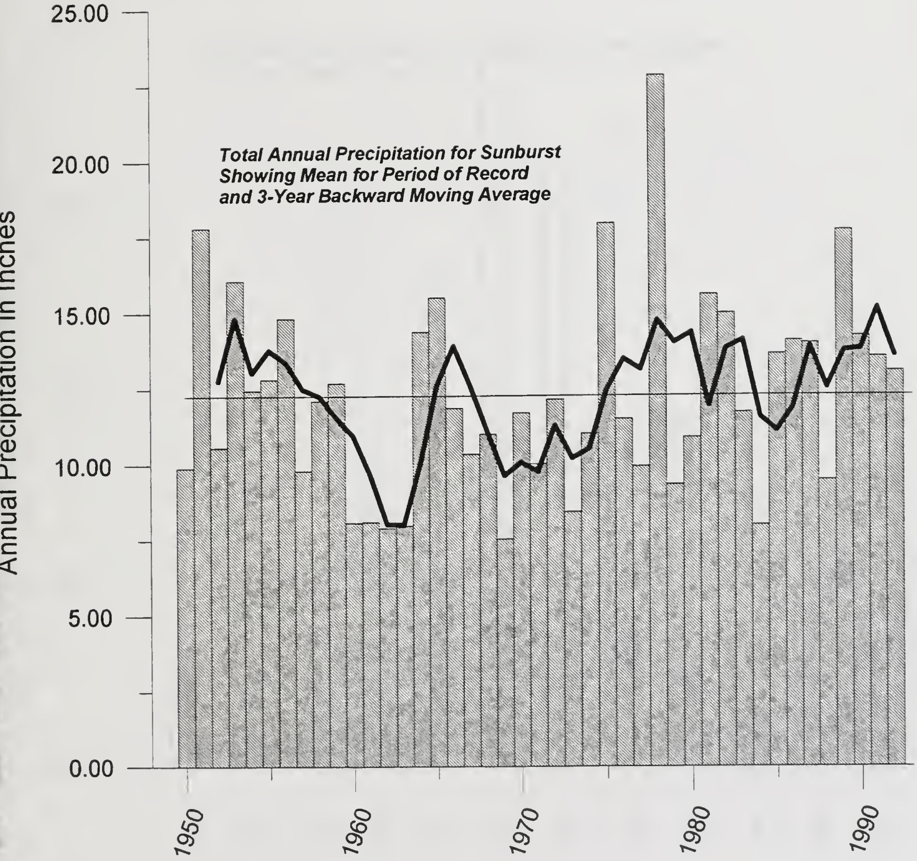
Site does not have a mapped surface outlet.

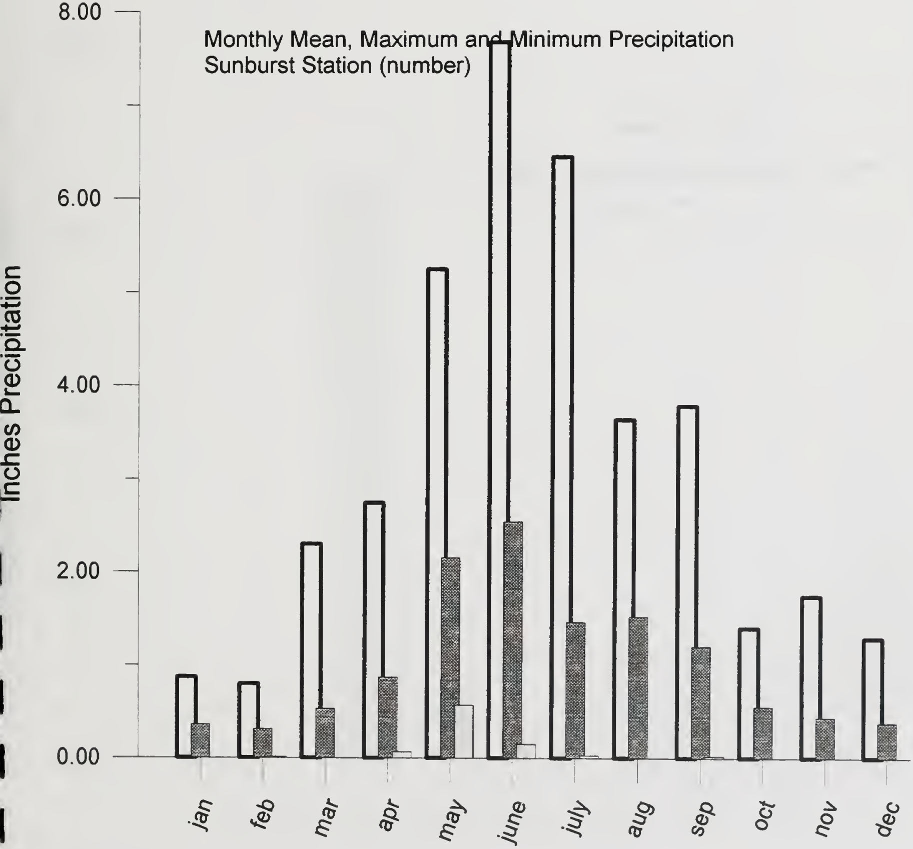
Site is artificially impounded.

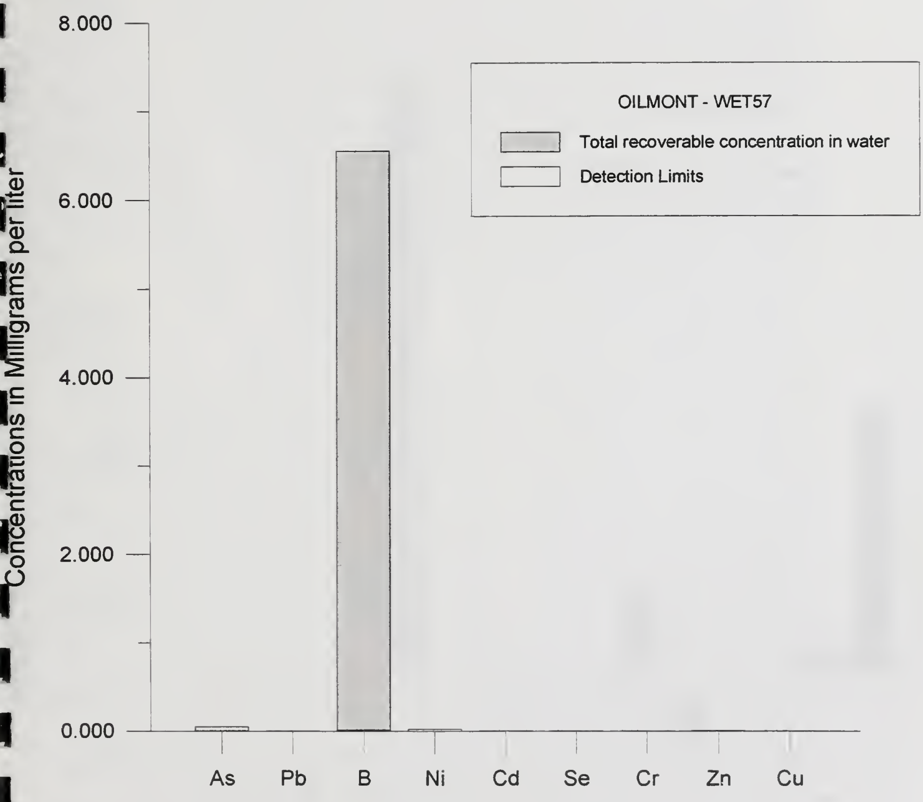
Site does not have known significant water imports.

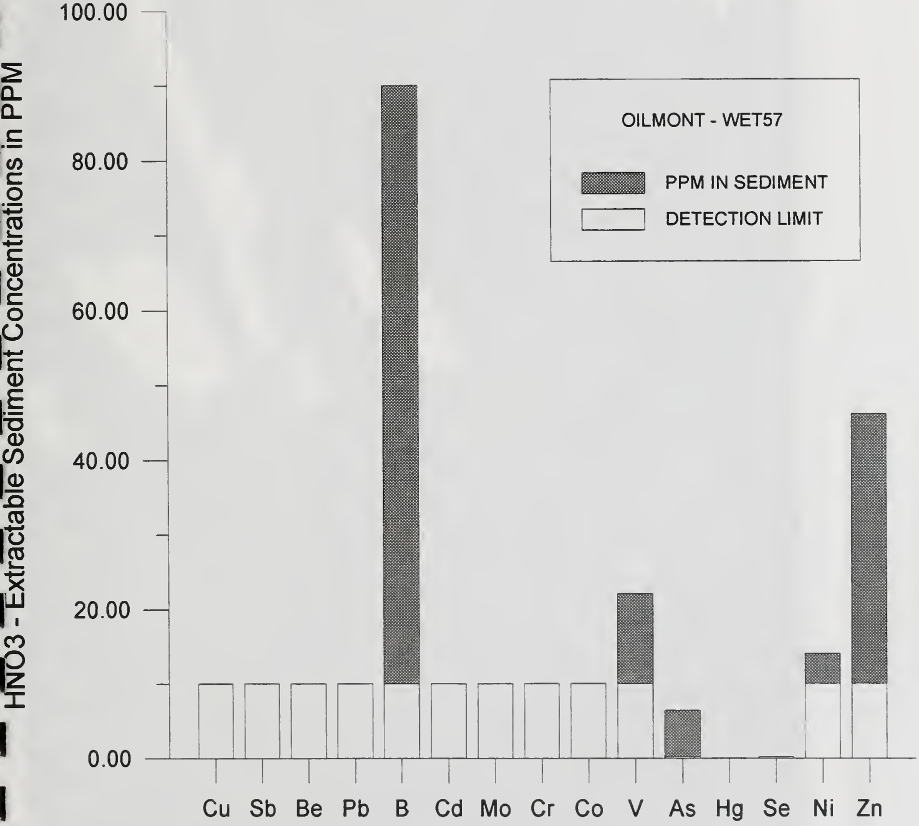
Mapped area of wetland:	9 acres
Area of contributing drainage basin:	140 acres
Mapped elevation of wetland surface:	3445 ft
Maximum elevation within drainage basin:	3505 ft
Net relief of contributing basin:	60 ft

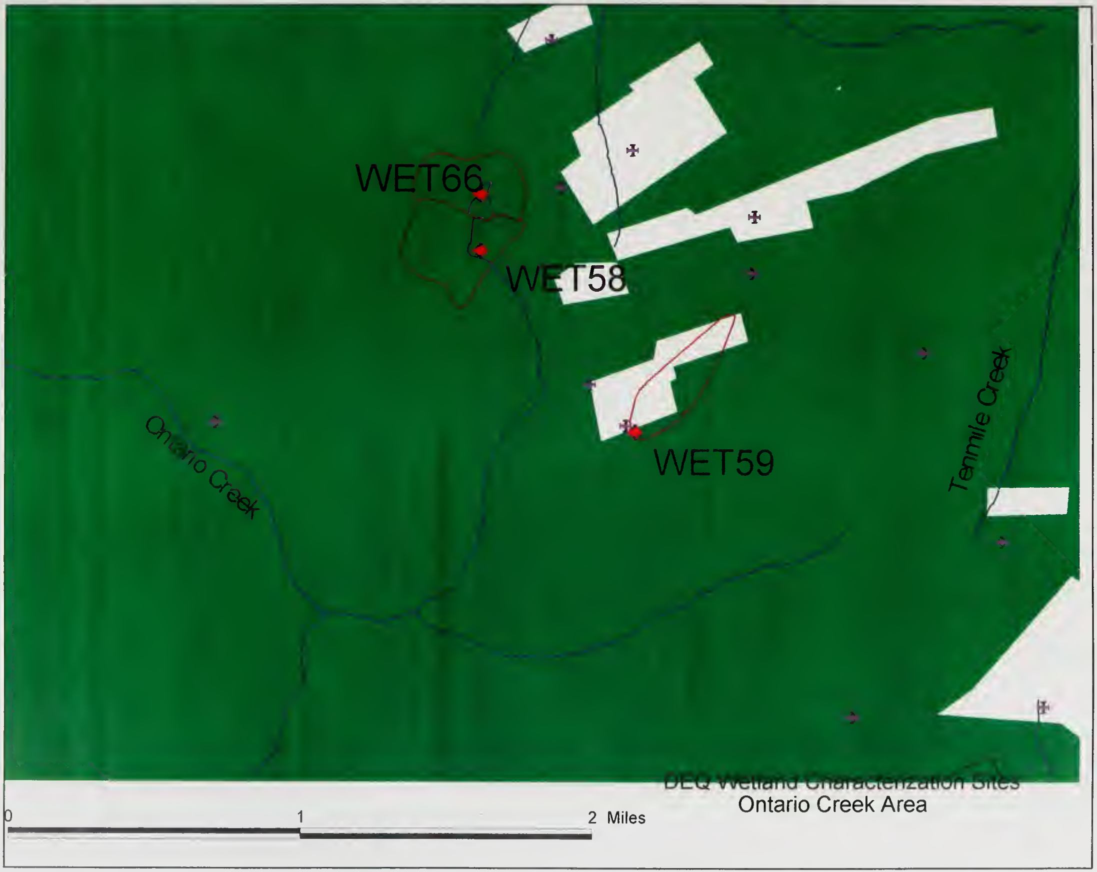
COE Hydrogeomorphic class:	DEPRESSIONAL
Primary surficial geologic unit	112TILL
Primary bedrock geologic unit	211CLRD


Total Annual Precipitation for Sunburst
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
25.00
20.00
15.00
10.00
5.00
0.00
1950
1960
1970
1980
1990


Monthly Mean, Maximum and Minimum Precipitation
Sunburst Station (number)
Inches Precipitation
8.00
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


OILMONT - WET57
Total recoverable concentration in water
Detection Limits
Concentrations in Milligrams per liter
8.000
6.000
4.000
2.000
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
100.00
80.00
60.00
40.00
20.00
0.00
OILMONT - WET57
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Sites
Ontario Creek Area

Wetland: ONTARIO CREEK HEADWATERS

Site Code: WET58

7.5 Minute Quad: THREE BROTHERS

Lat: 46 26 15
Long: 112 21 5

Mean Annual Precipitation in Inches: 25.00

Mean Annual Potential Evaporation (Penman) in Inches: 28.00

'Net Precipitation' in Inches: -3.00

Site does not have a mapped surface inlet.

Site has a mapped surface outlet.

Site is not known to be artificially impounded.

Site does not have known significant water imports.

Mapped area of wetland: 5 acres

Area of contributing drainage basin: 56 acres

Mapped elevation of wetland surface: 6970 ft

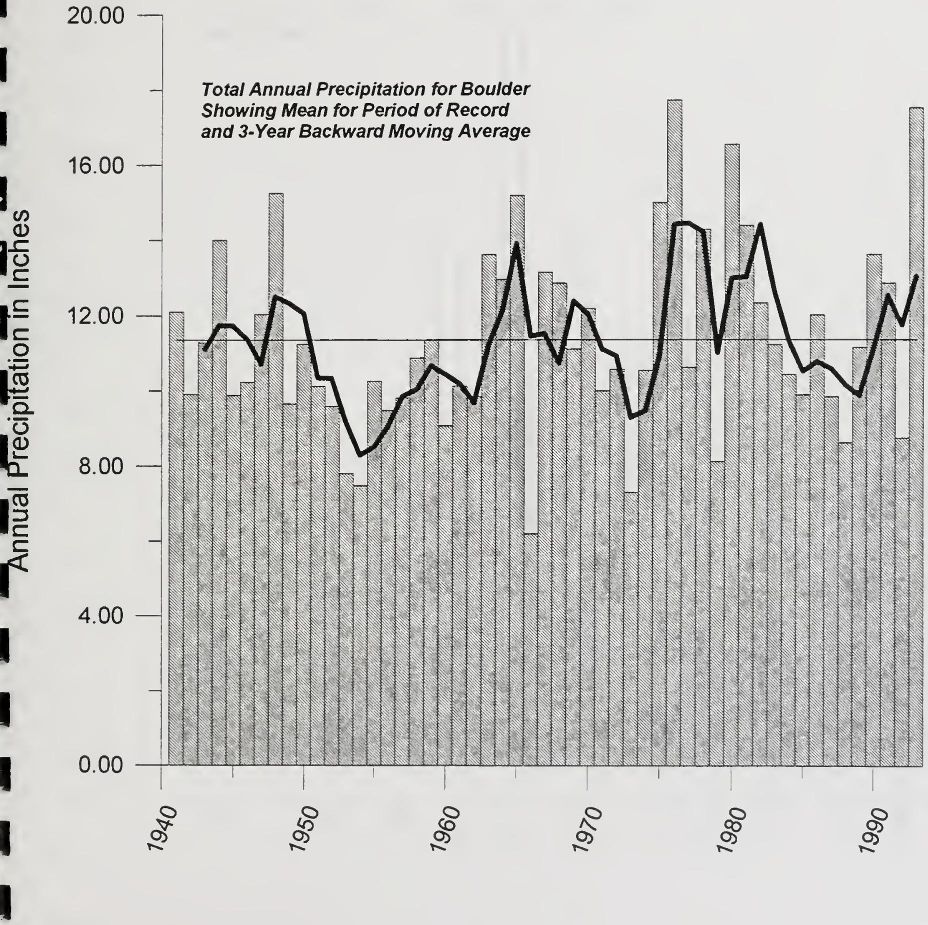
Maximum elevation within drainage basin: 7125 ft

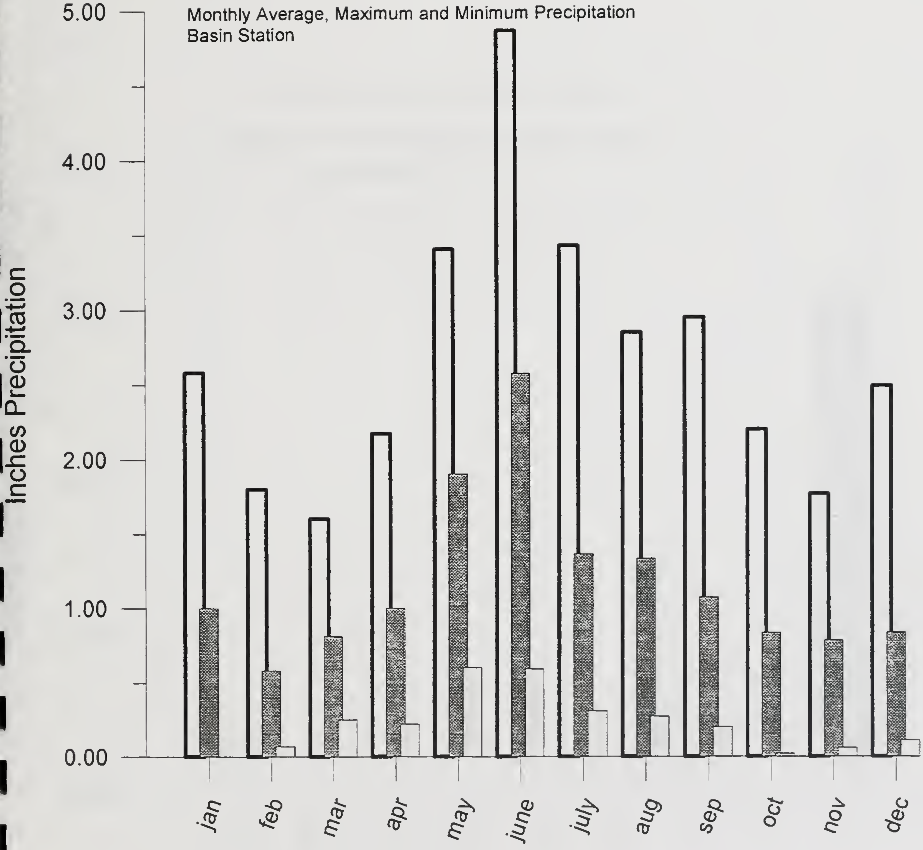
Net relief of contributing basin: 155 ft

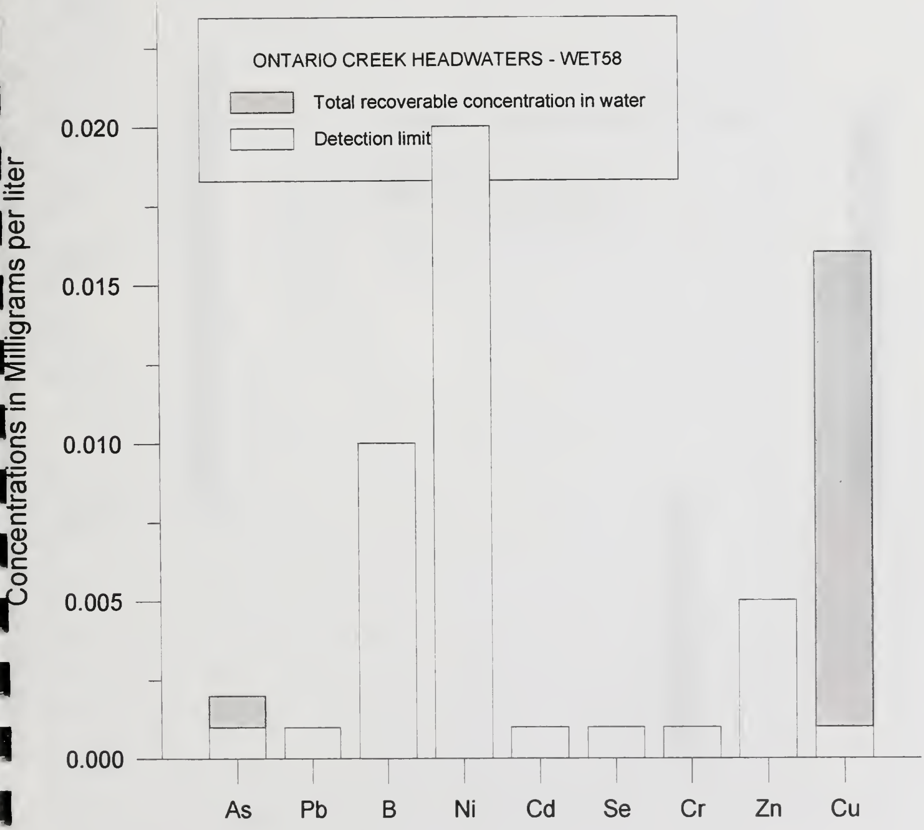
COE Hydrogeomorphic class: EXTENS PEAT

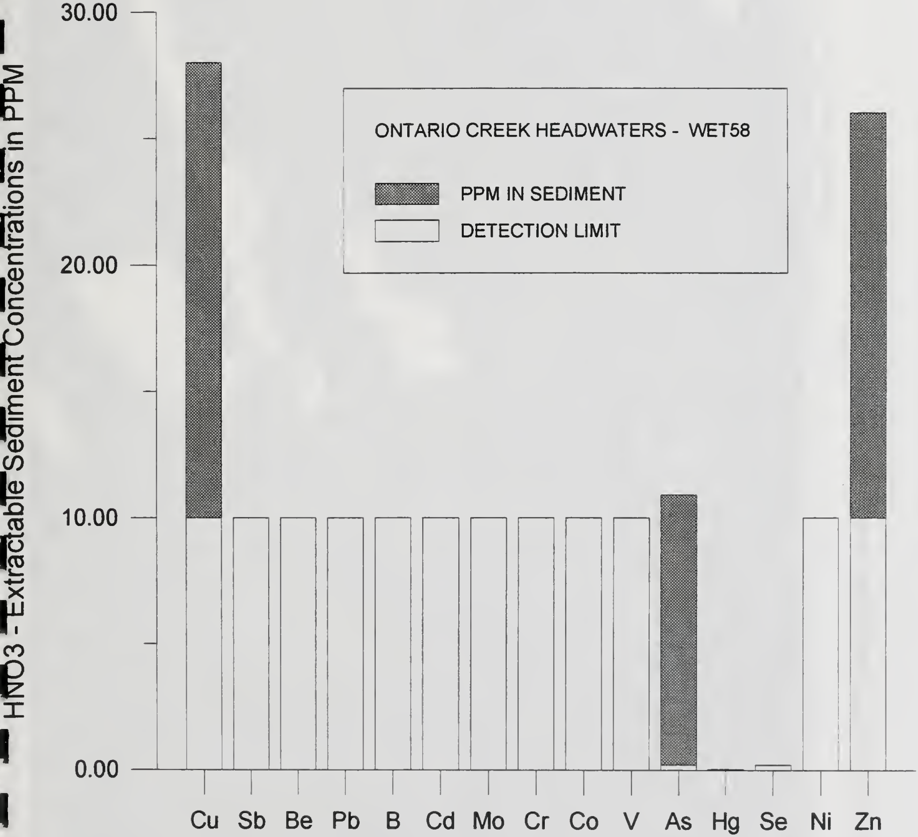
Primary surficial geologic unit 112TILL

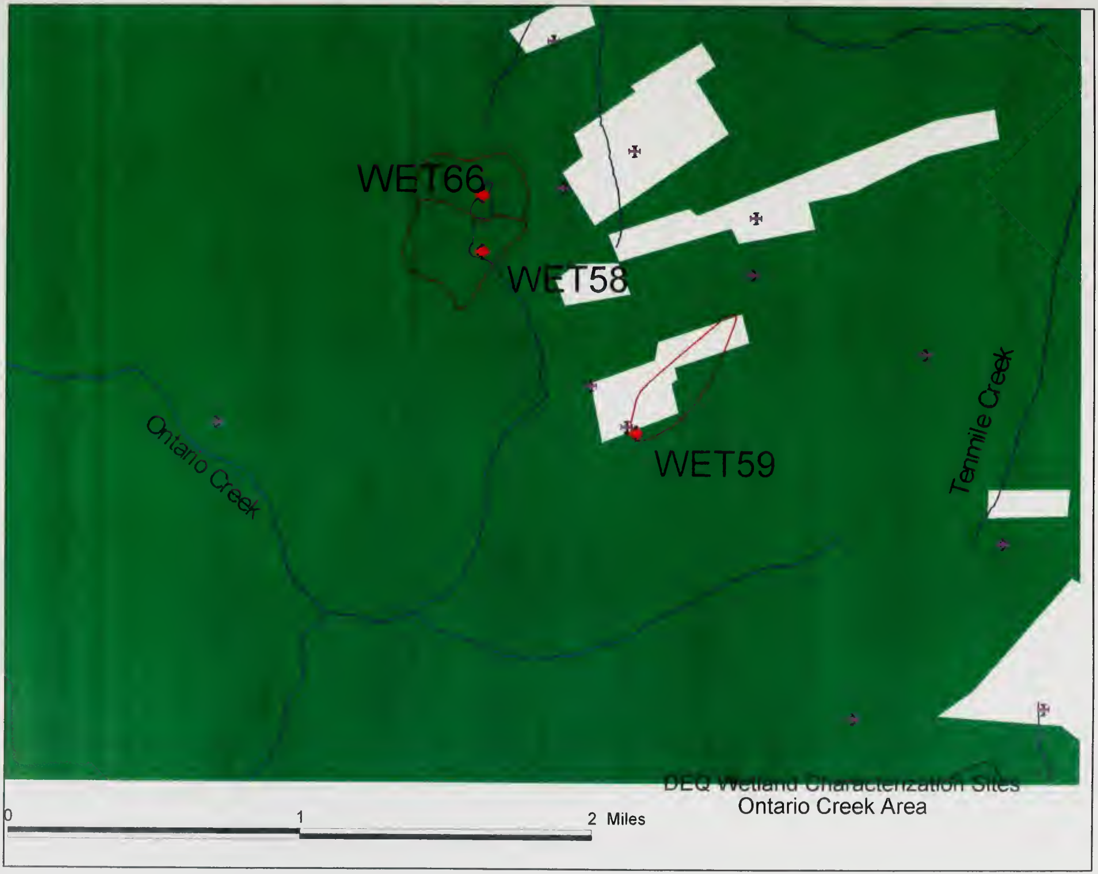
Primary bedrock geologic unit 211ELKM

Total Annual Precipitation for Boulder
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
20.00
16.00
12.00
8.00
4.00
0.00
1940
1950
1960
1970
1980
1990


Monthly Average, Maximum and Minimum Precipitation
Basin Station
Inches Precipitation
5.00
4.00
3.00
2.00
1.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


ONTARIO CREEK HEADWATERS - WET58
Total recoverable concentration in water
Detection limit
Concentrations in Milligrams per liter
0.020
0.015
0.010
0.005
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
30.00
20.00
10.00
0.00
ONTARIO CREEK HEADWATERS - WET58
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn


DEQ Wetland Characterization Sites
Ontario Creek Area

Wetland: ONTARIO MINE WETLAND	Site Code: WET59
7.5 Minute Quad: THREE BROTHERS	Lat: 46 25 45 Long: 112 20 20

Mean Annual Precipitation in Inches:	25.00
Mean Annual Potential Evaporation (Penman) in Inches:	28.00
'Net Precipitation' in Inches:	-3.00

Site has a mapped surface inlet.

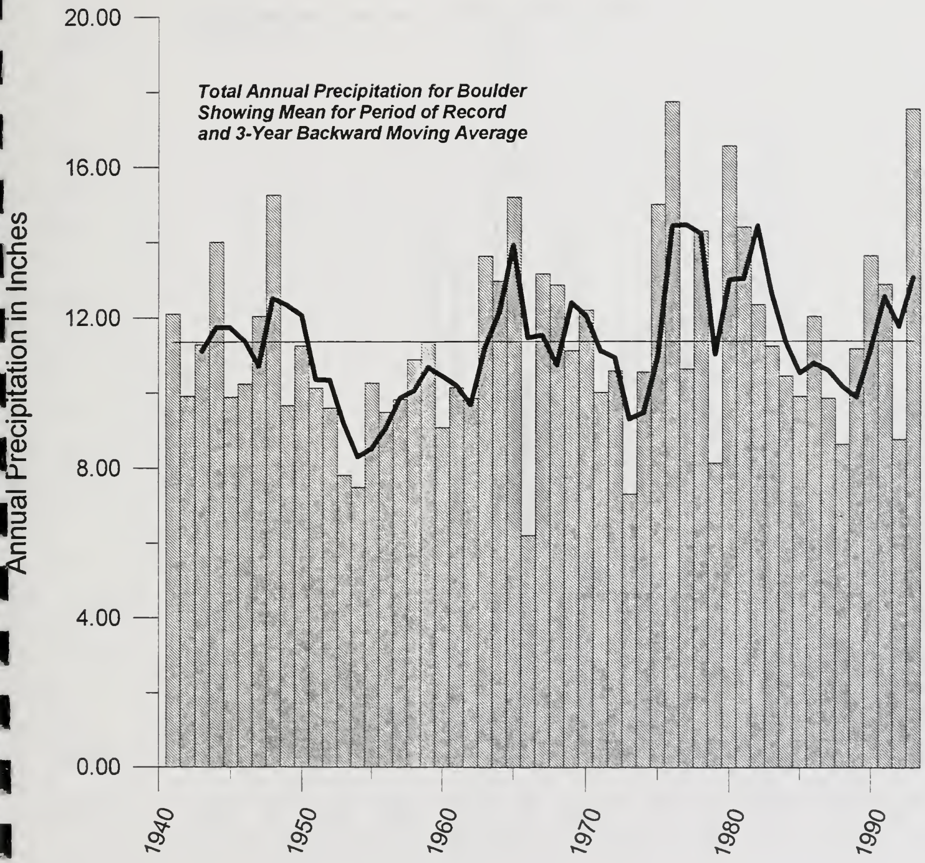
Site has a mapped surface outlet.

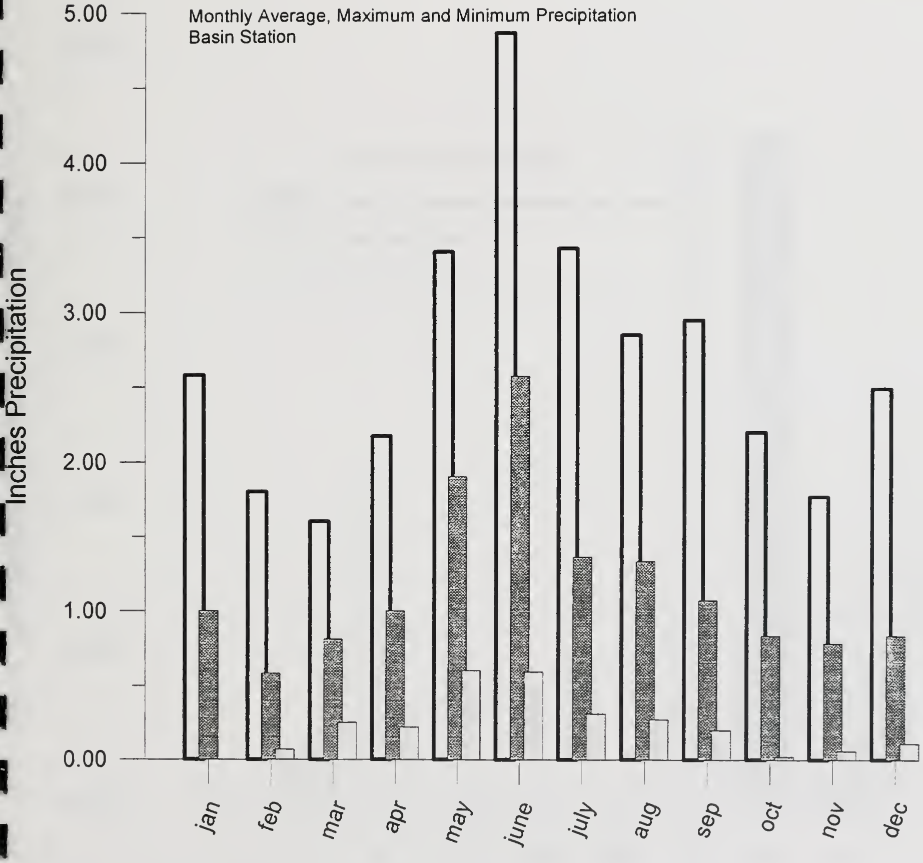
Site is not known to be artificially impounded.

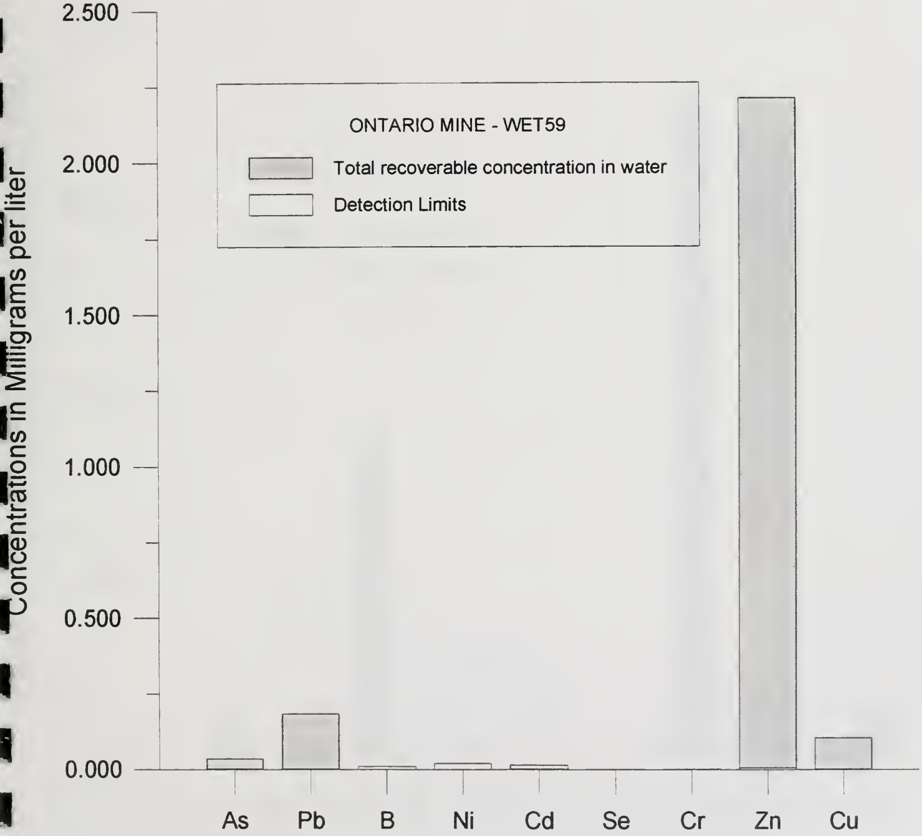
Site does not have known significant water imports.

Mapped area of wetland:	20 acres
Area of contributing drainage basin:	40 acres
Mapped elevation of wetland surface:	6960 ft
Maximum elevation within drainage basin:	7530 ft
Net relief of contributing basin:	570 ft

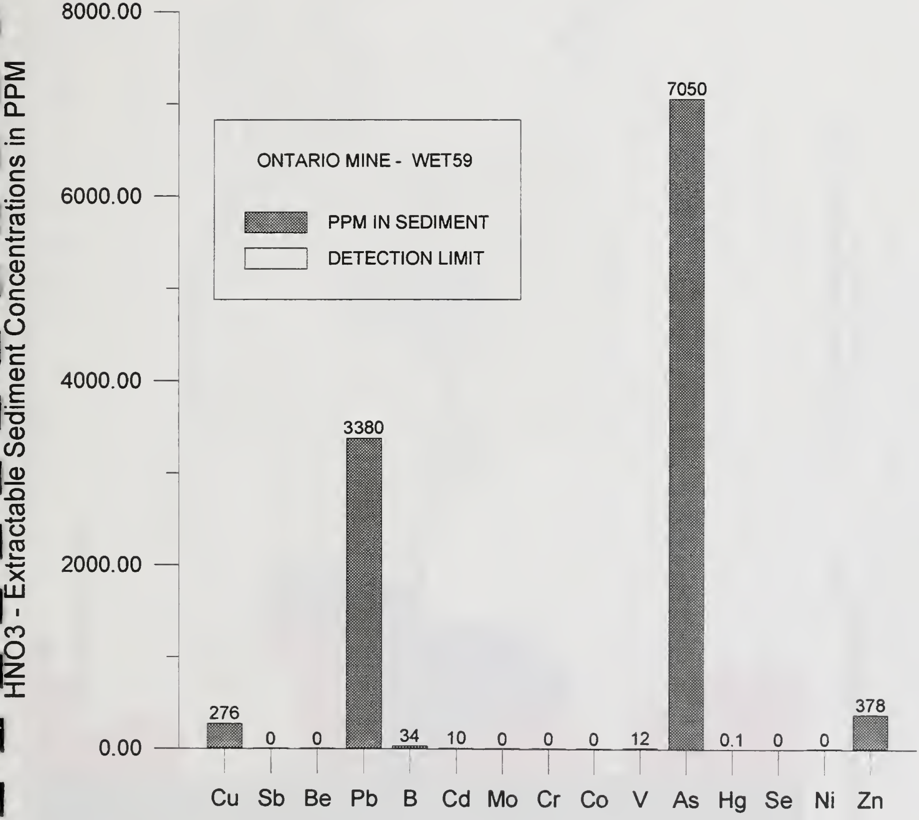
COE Hydrogeomorphic class:	RIVERINE
Primary surficial geologic unit	
Primary bedrock geologic unit	210CRCS

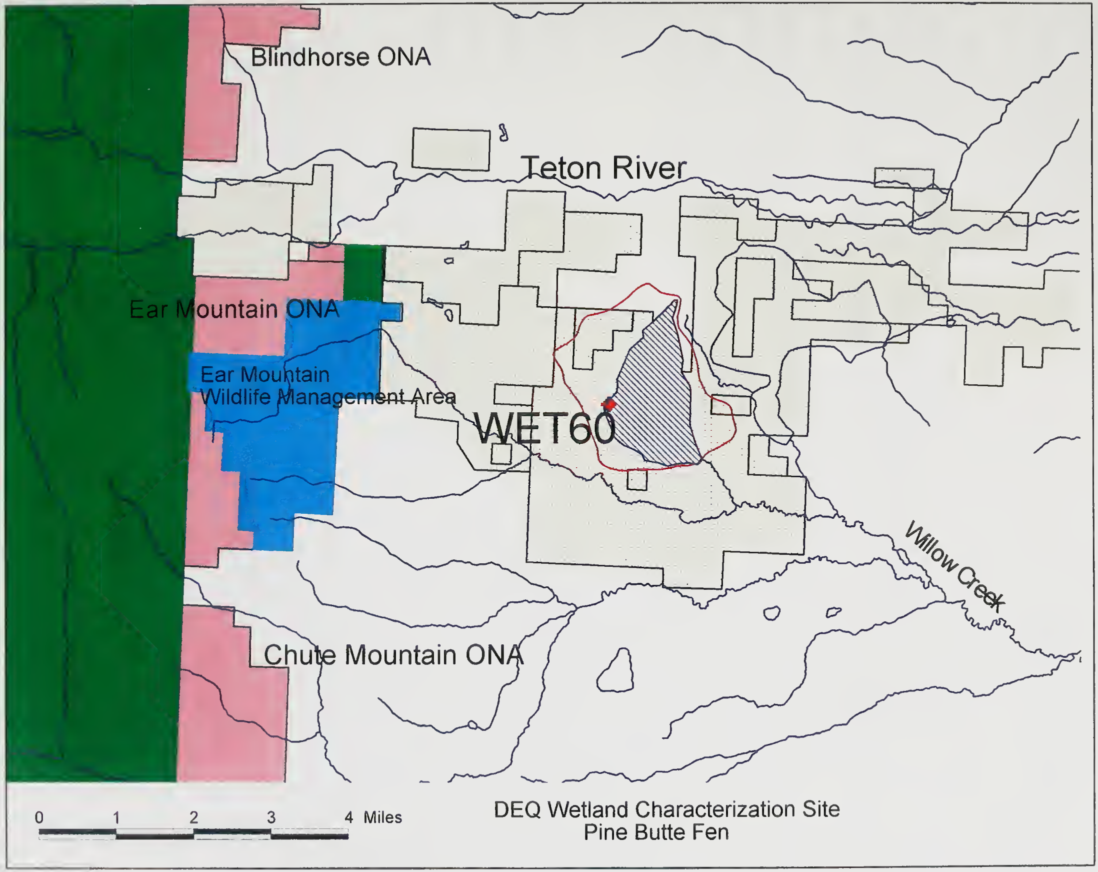

Total Annual Precipitation for Boulder
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
20.00
16.00
12.00
8.00
4.00
0.00
1940
1950
1960
1970
1980
1990


Monthly Average, Maximum and Minimum Precipitation
Basin Station
Inches Precipitation
5.00
4.00
3.00
2.00
1.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec



ONTARIO MINE - WET59
Total recoverable concentration in water
Detection Limits
Concentrations in Milligrams per liter
2.500
2.000
1.500
1.000
0.500
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
8000.00
6000.00
4000.00
2000.00
0.00
ONTARIO MINE - WET59
PPM IN SEDIMENT
DETECTION LIMIT
276
0
0
3380
34
10
0
0
0
12
7050
0.1
0
0
378
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Site
Pine Butte Fen

Wetland: PINE BUTTE FEN	Site Code: WET60
7.5 Minute Quad: LAKE THEBOE	Lat: 47 50 35 Long: 112 35 25

Mean Annual Precipitation in Inches:	17.00
Mean Annual Potential Evaporation (Penman) in Inches:	37.00
'Net Precipitation' in Inches:	-20.00

Site does not have a mapped surface inlet.

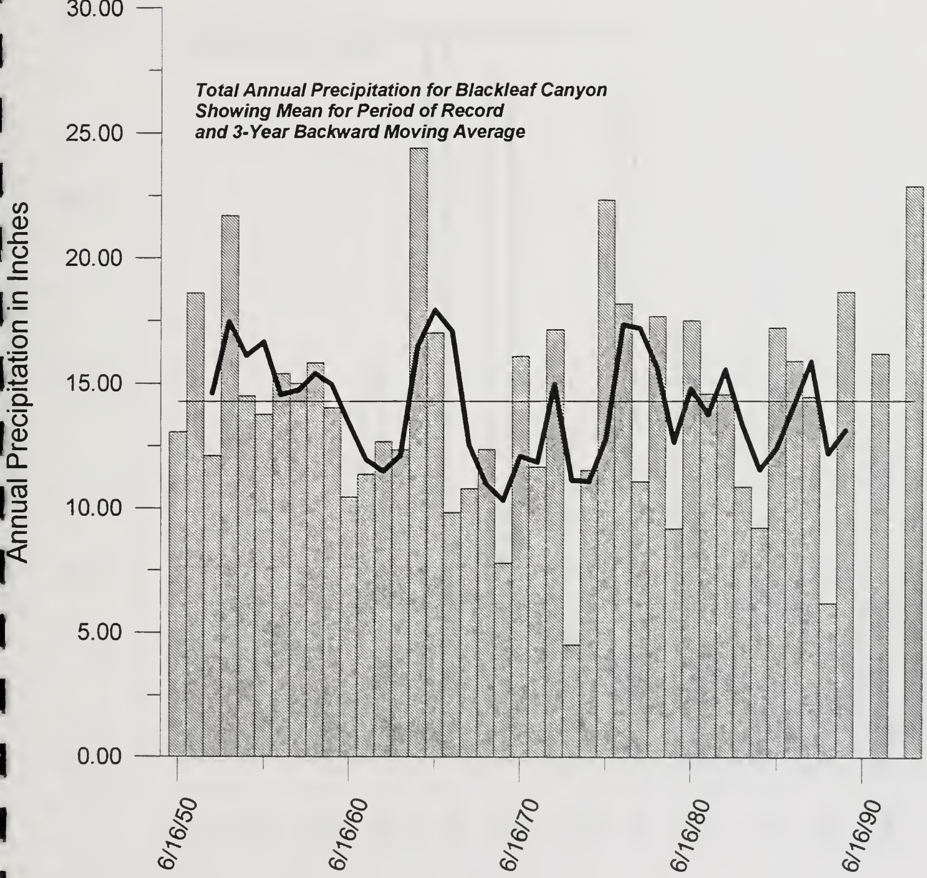
Site has a mapped surface outlet.

Site is not known to be artificially impounded.

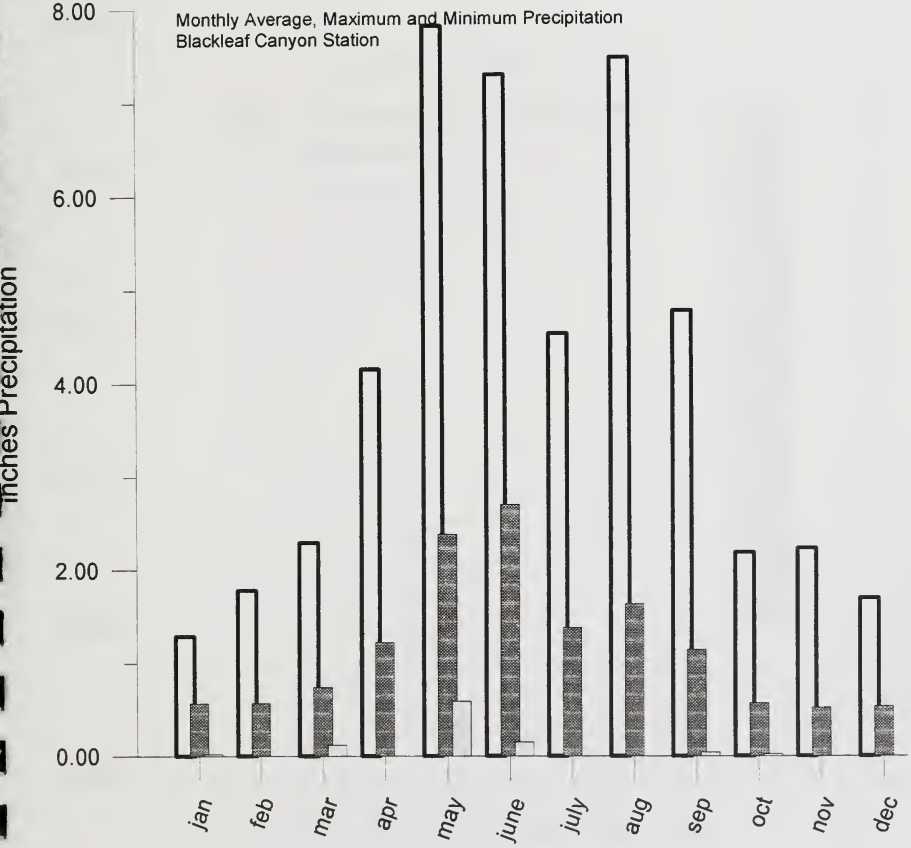
Site does not have known significant water imports.

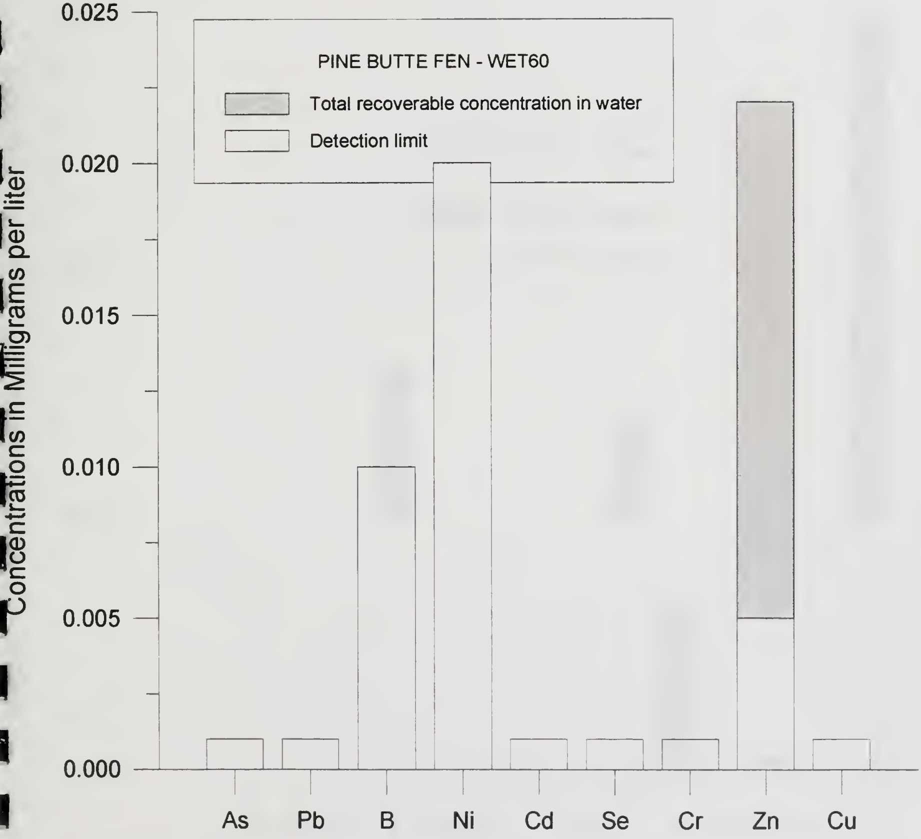
Mapped area of wetland:	980 acres
Area of contributing drainage basin:	2230 acres
Mapped elevation of wetland surface:	4610 ft
Maximum elevation within drainage basin:	5012 ft
Net relief of contributing basin:	402 ft

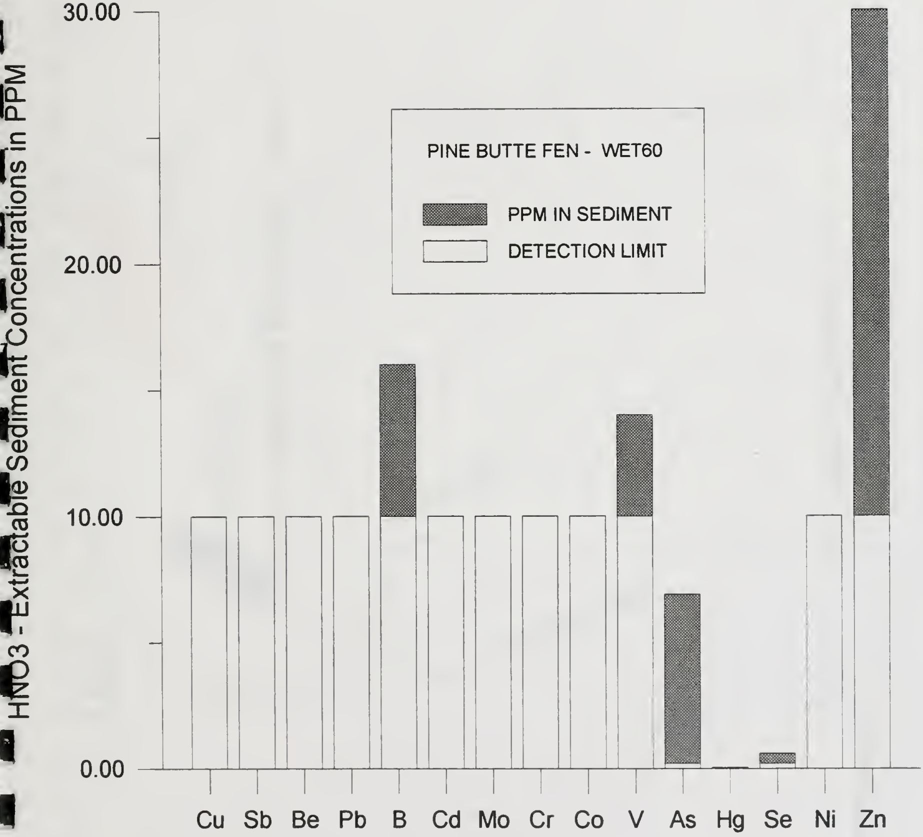
COE Hydrogeomorphic class:	EXTENS PEAT
Primary surficial geologic unit	112OTSH
Primary bedrock geologic unit	211MNTN

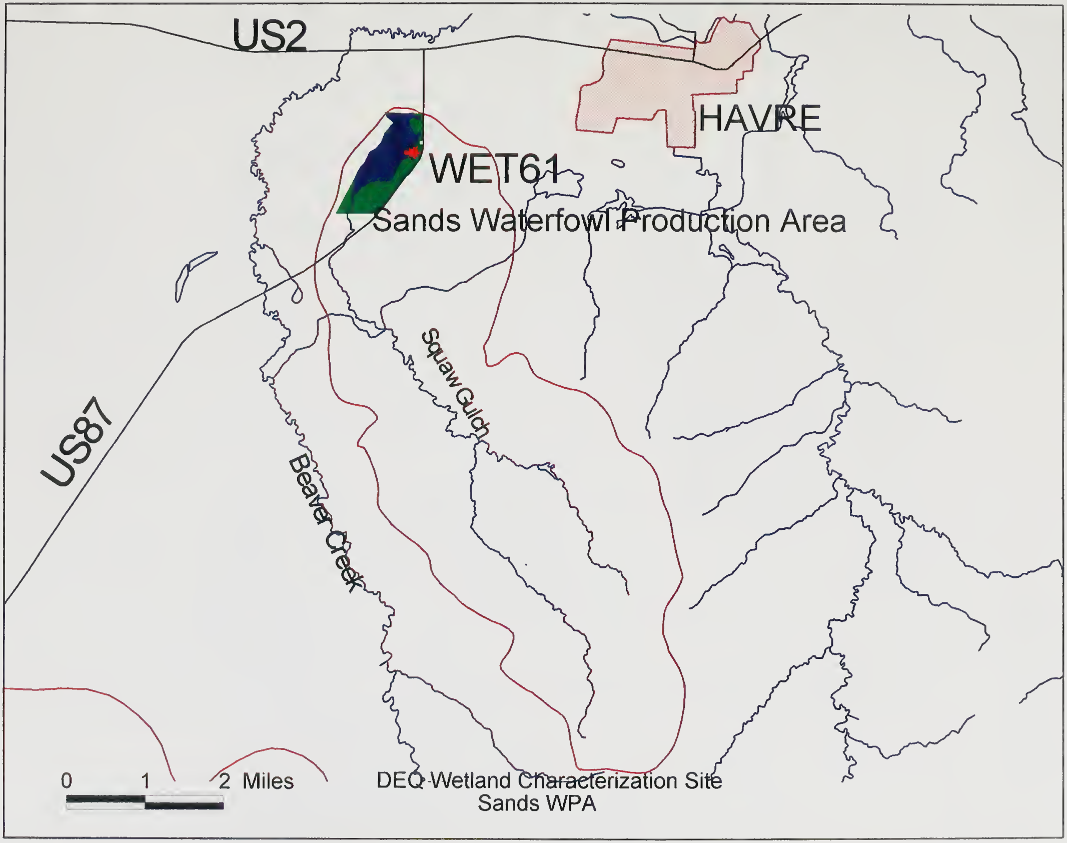


Total Annual Precipitation for Blackleaf Canyon
Showing Mean for Period of Record
and 3-Year Backward Moving Average


Monthly Average, Maximum and Minimum Precipitation
Blackleaf Canyon Station
Inches Precipitation
8.00
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


PINE BUTTE FEN - WET60
Total recoverable concentration in water
Detection limit
Concentrations in Milligrams per liter
0.025
0.020
0.015
0.010
0.005
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
30.00
20.00
10.00
0.00
PINE BUTTE FEN - WET60
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn


US2
HAVRE
WET61
Sands Waterfowl Production Area
US87
Squaw Gulch
Beaver Creek
0
1
2 Miles
DEQ Wetland Characterization Site
Sands WPA

Wetland: SANDS WPA	Site Code: WET61
7.5 Minute Quad: HAVRE	Lat: 48 32 20 Long: 109 44 50

Mean Annual Precipitation in Inches:	11.00
Mean Annual Potential Evaporation (Penman) in Inches:	38.00
'Net Precipitation' in Inches:	-27.00

Site has a mapped surface inlet.

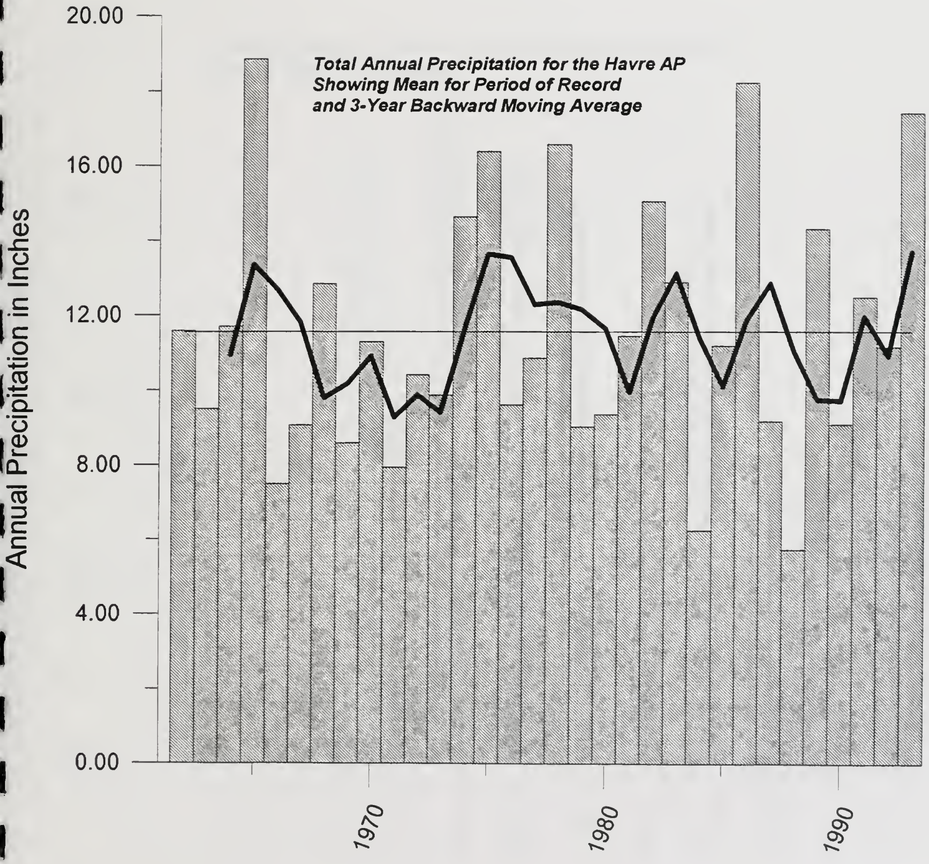
Site does not have a mapped surface outlet.

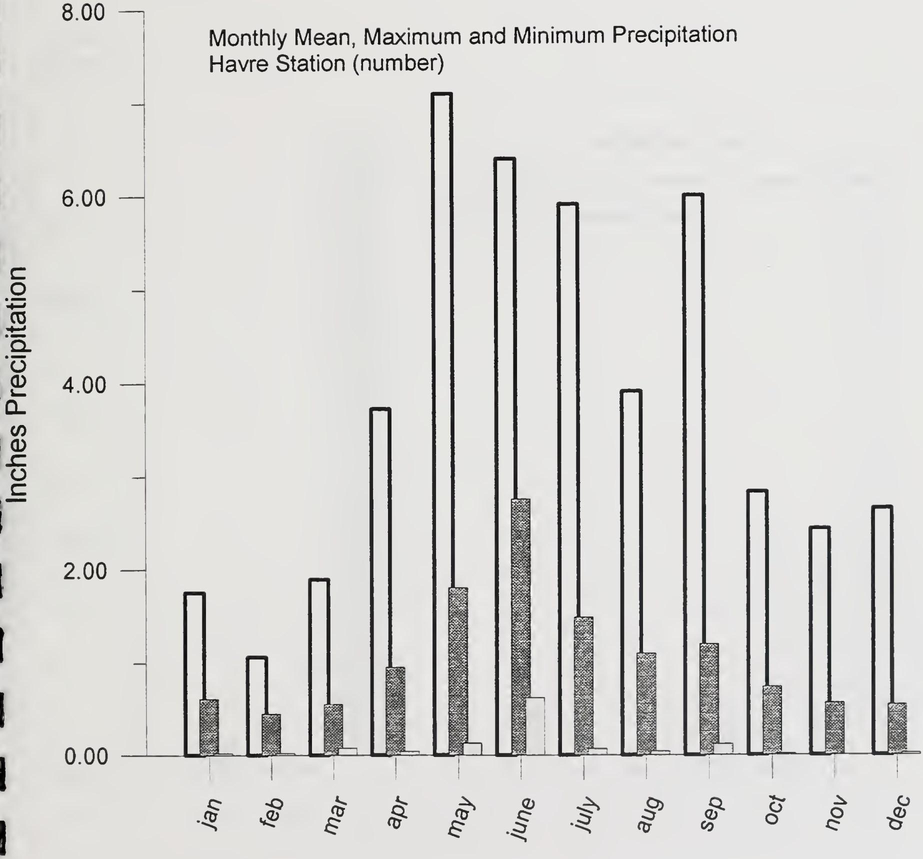
Site is not known to be artificially impounded.

Site has significant water imports.

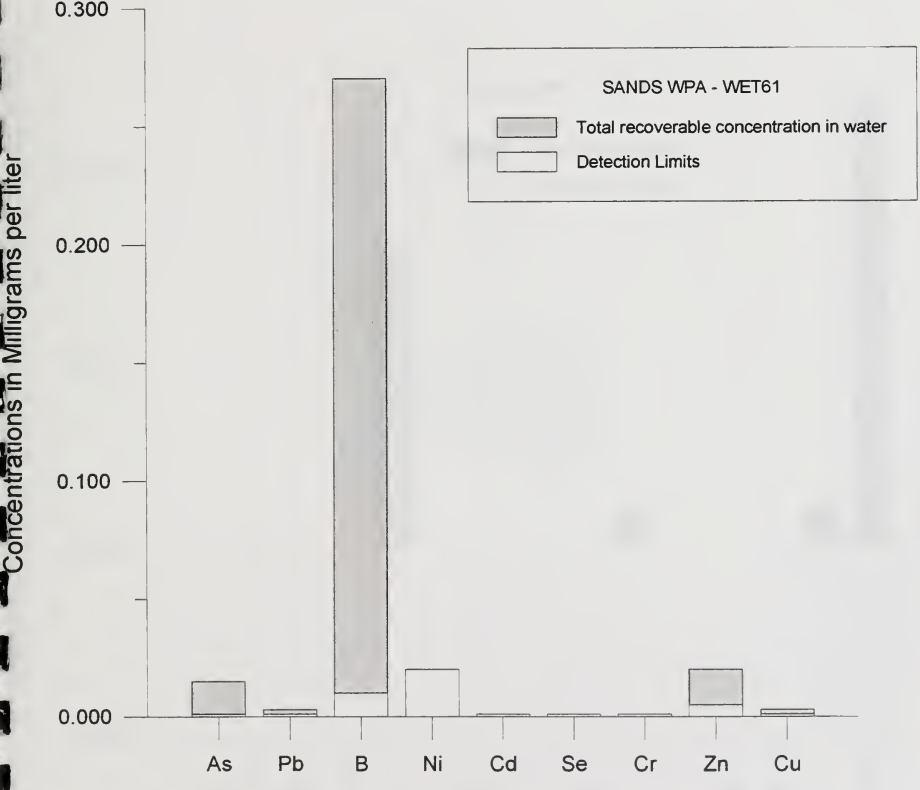
Mapped area of wetland:	240 acres
Area of contributing drainage basin:	12810 acres
Mapped elevation of wetland surface:	2570 ft
Maximum elevation within drainage basin:	3050 ft
Net relief of contributing basin:	480 ft

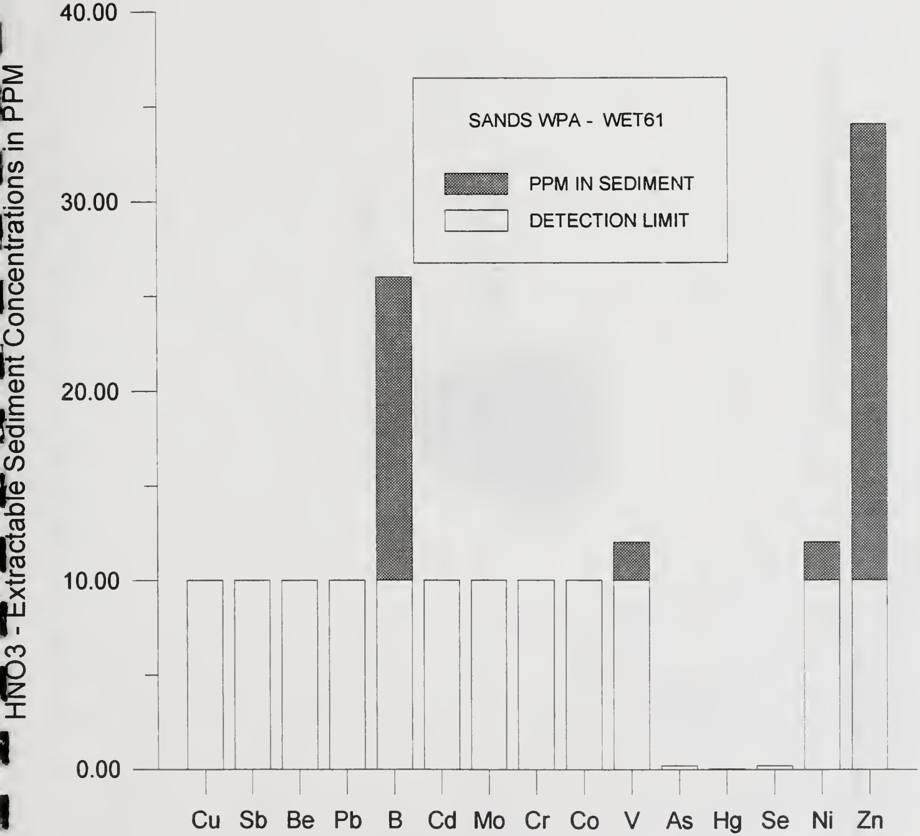
COE Hydrogeomorphic class:	DEPRESSIONAL
Primary surficial geologic unit	112DRFT
Primary bedrock geologic unit	211JDRV

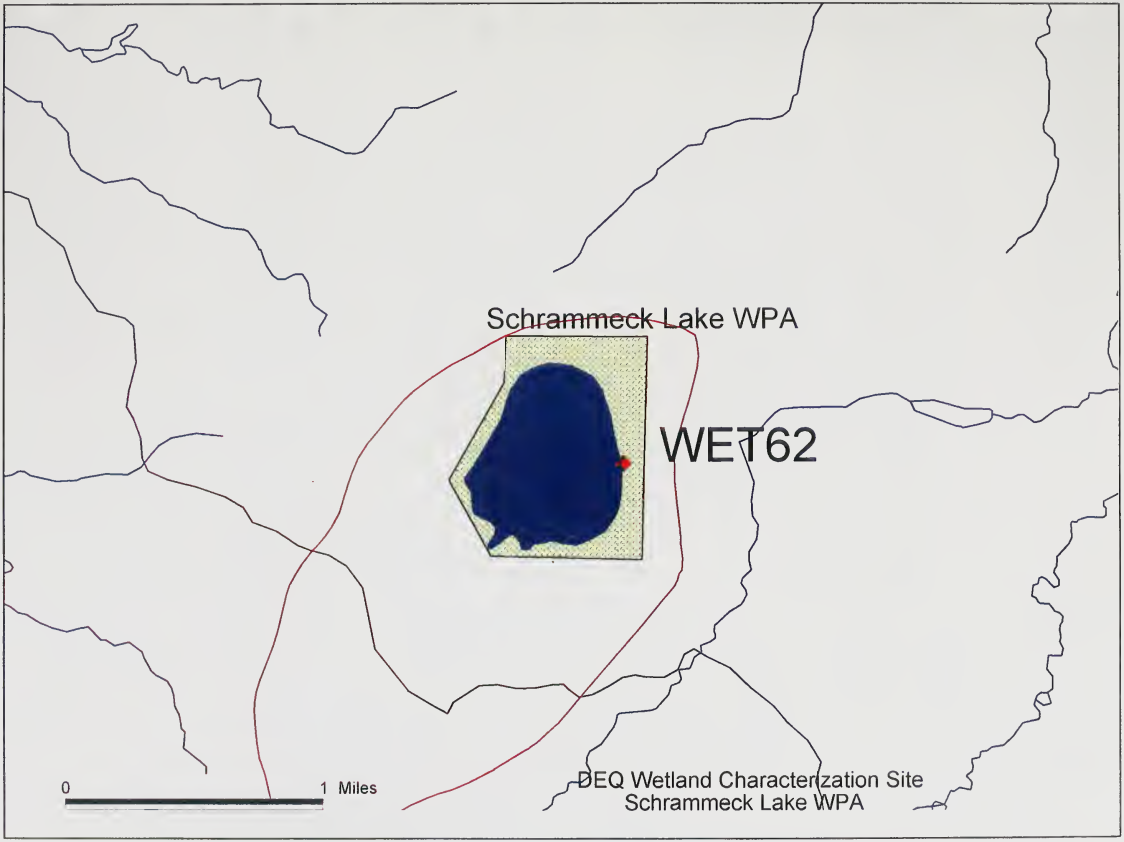

Total Annual Precipitation for the Havre AP
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
20.00
16.00
12.00
8.00
4.00
0.00
1970
1980
1990



8.00
6.00
4.00
2.00
0.00
Inches Precipitation
Monthly Mean, Maximum and Minimum Precipitation
Havre Station (number)
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


SANDS WPA - WET61
Total recoverable concentration in water
Detection Limits
Concentrations in Milligrams per liter
0.300
0.200
0.100
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
40.00
30.00
20.00
10.00
0.00
SANDS WPA - WET61
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn


Schrammeck Lake WPA
WET62
0
1 Miles
DEQ Wetland Characterization Site
Schrammeck Lake WPA

Wetland: SCHRAMMECK LAKE WPA	Site Code: WET62
7.5 Minute Quad: SCHRAMMECK LAKE	Lat: 47 14 20 Long: 111 31 40

Mean Annual Precipitation in Inches:	15.00
Mean Annual Potential Evaporation (Penman) in Inches:	40.00
'Net Precipitation' in Inches:	-25.00

Site has a mapped surface inlet.

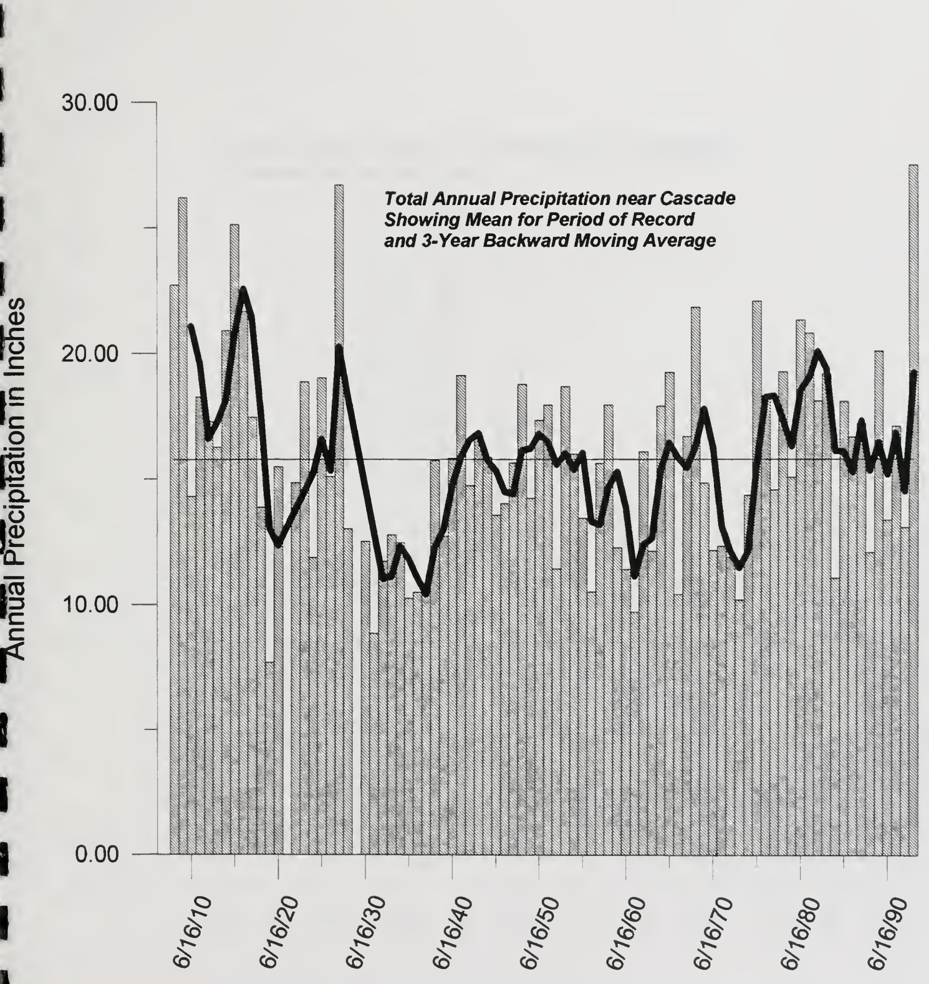
Site does not have a mapped surface outlet.

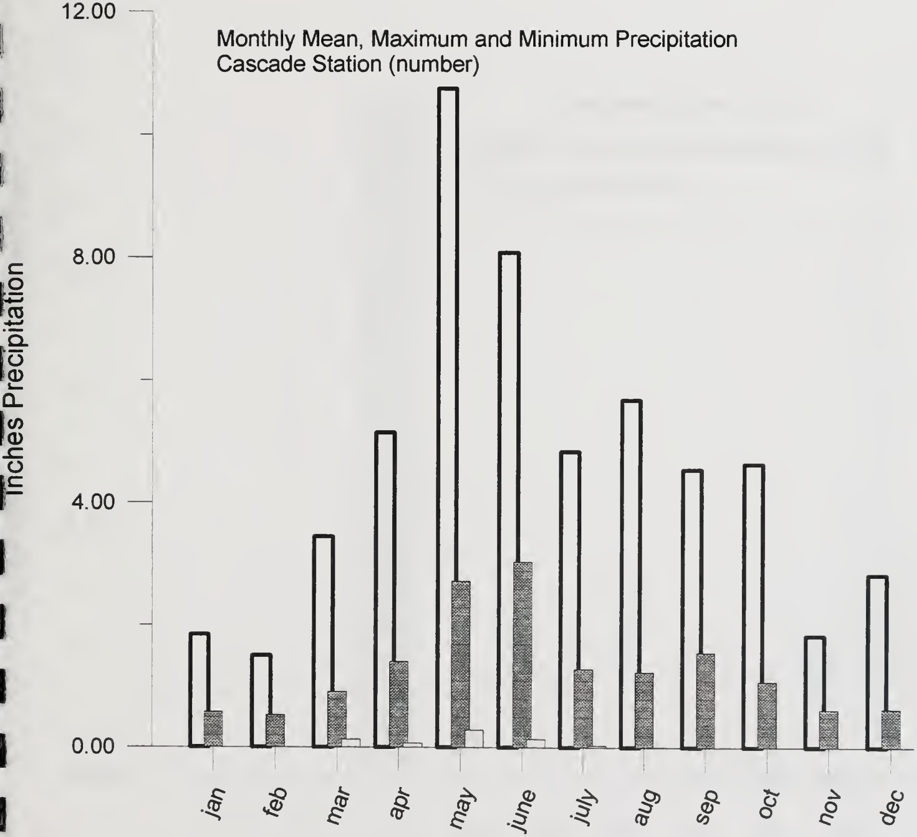
Site is not known to be artificially impounded.

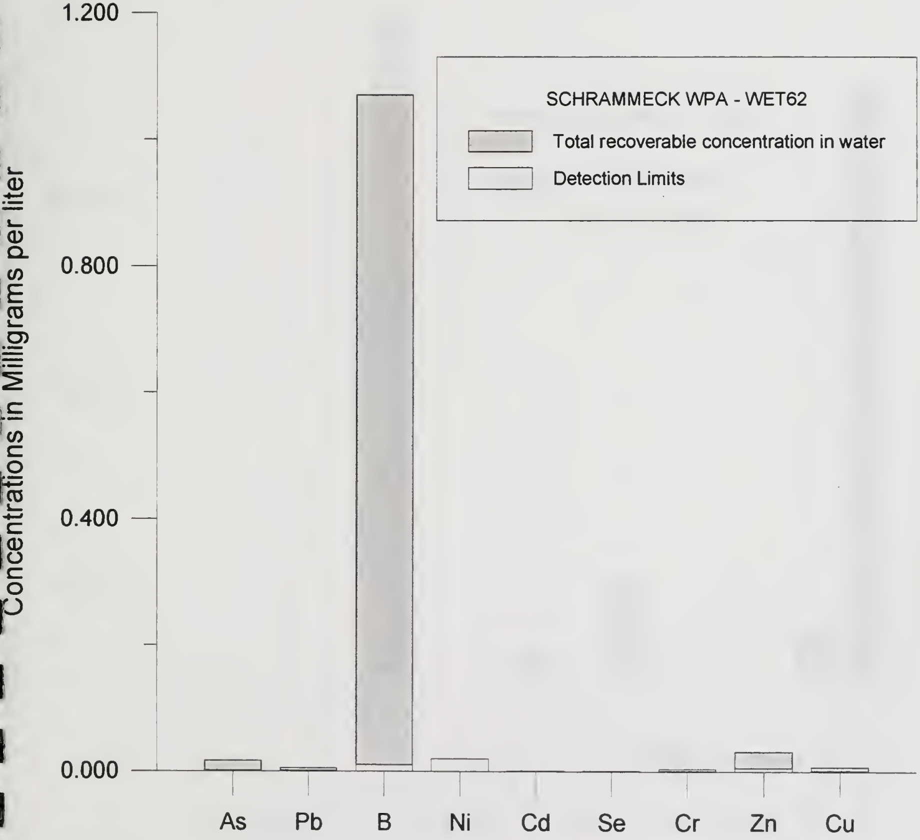
Site does not have known significant water imports.

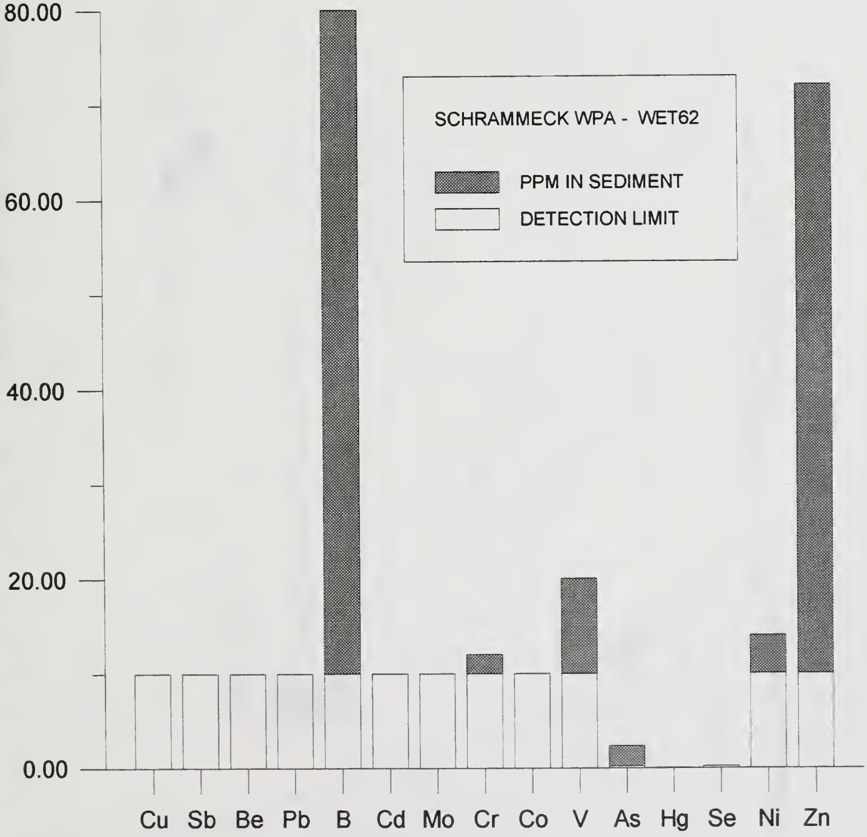
Mapped area of wetland:	205 acres
Area of contributing drainage basin:	1450 acres
Mapped elevation of wetland surface:	3735 ft
Maximum elevation within drainage basin:	3930 ft
Net relief of contributing basin:	195 ft

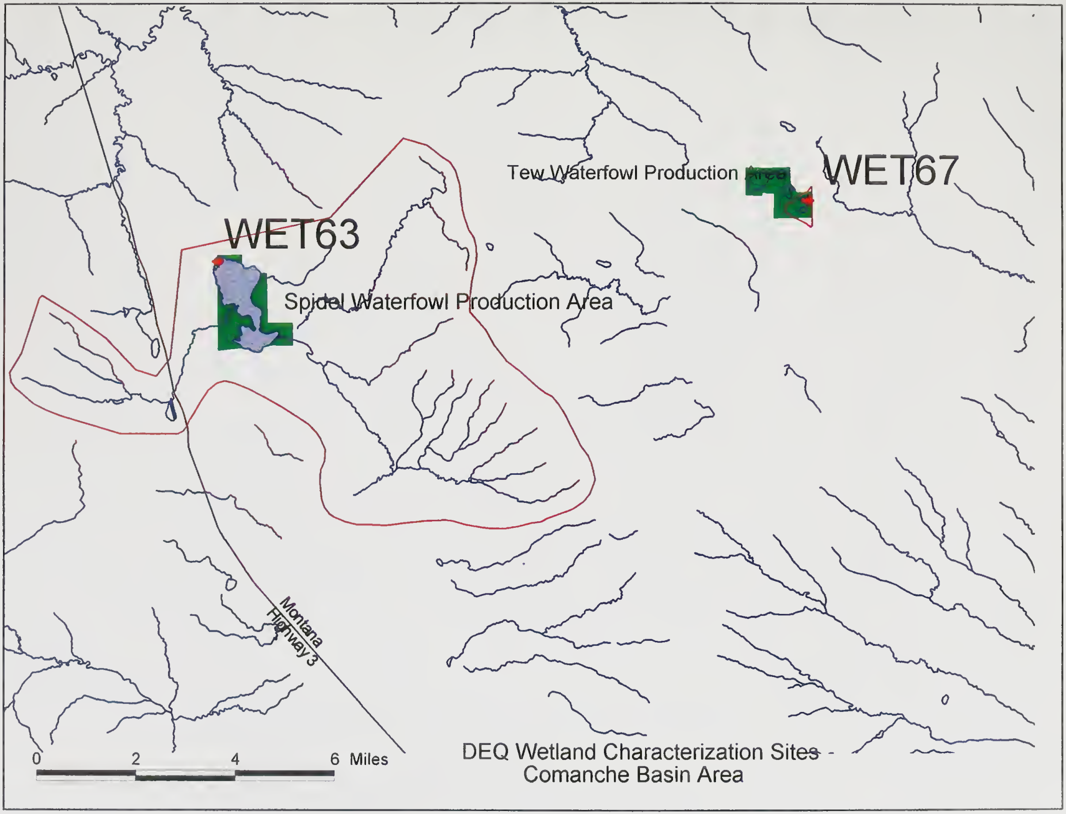
COE Hydrogeomorphic class:	FRINGE
Primary surficial geologic unit	110"LAC"
Primary bedrock geologic unit	211CLRD


Total Annual Precipitation near Cascade
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
30.00
20.00
10.00
0.00
6/16/10
6/16/20
6/16/30
6/16/40
6/16/50
6/16/60
6/16/70
6/16/80
6/16/90


Monthly Mean, Maximum and Minimum Precipitation
Cascade Station (number)


1.200
0.800
0.400
0.000
Concentrations in Milligrams per liter
SCHRAMMECK WPA - WET62
Total recoverable concentration in water
Detection Limits
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
80.00
60.00
40.00
20.00
0.00
SCHRAMMECK WPA - WET62
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Sites -
Comanche Basin Area

WET67
Tew Waterfowl Production Area
WET63
Spidel Waterfowl Production Area
Montana Highway 3
0
2
4
6 Miles

Wetland: SPIDEL WPA	Site Code: WET63
7.5 Minute Quad: BROADVIEW NORTHEAST	Lat: 46 9 0 Long: 108 51 40

Mean Annual Precipitation in Inches:	13.00
Mean Annual Potential Evaporation (Penman) in Inches:	42.00
'Net Precipitation' in Inches:	-29.00

Site has a mapped surface inlet.

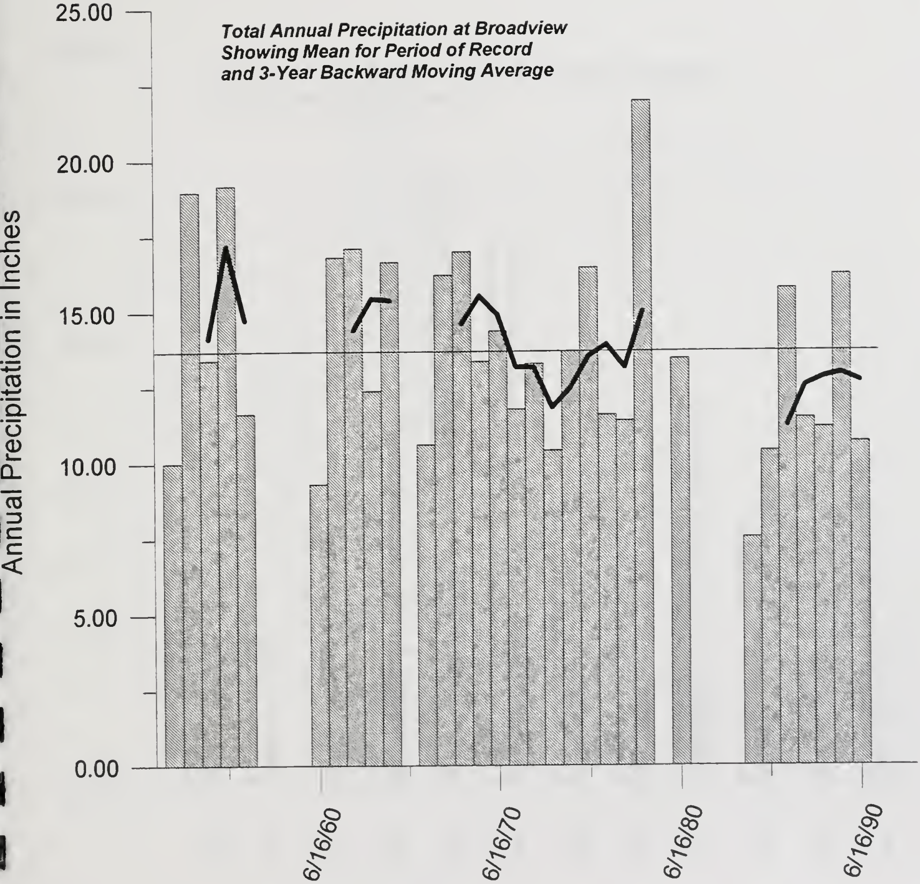
Site does not have a mapped surface outlet.

Site is not known to be artificially impounded.

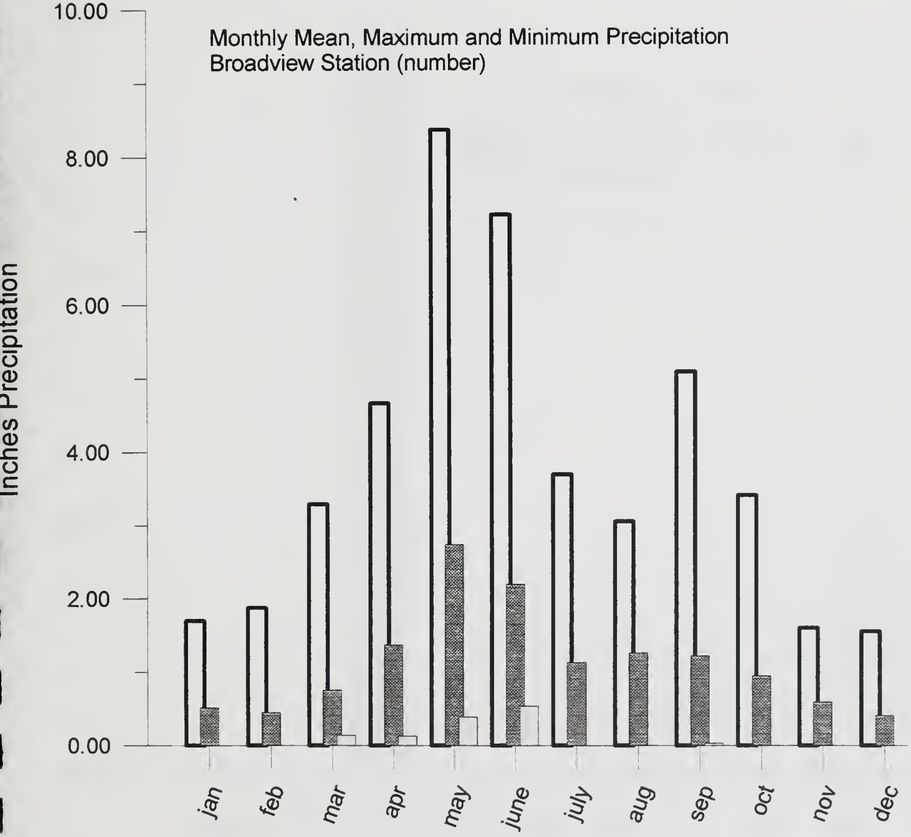
Site does not have known significant water imports.

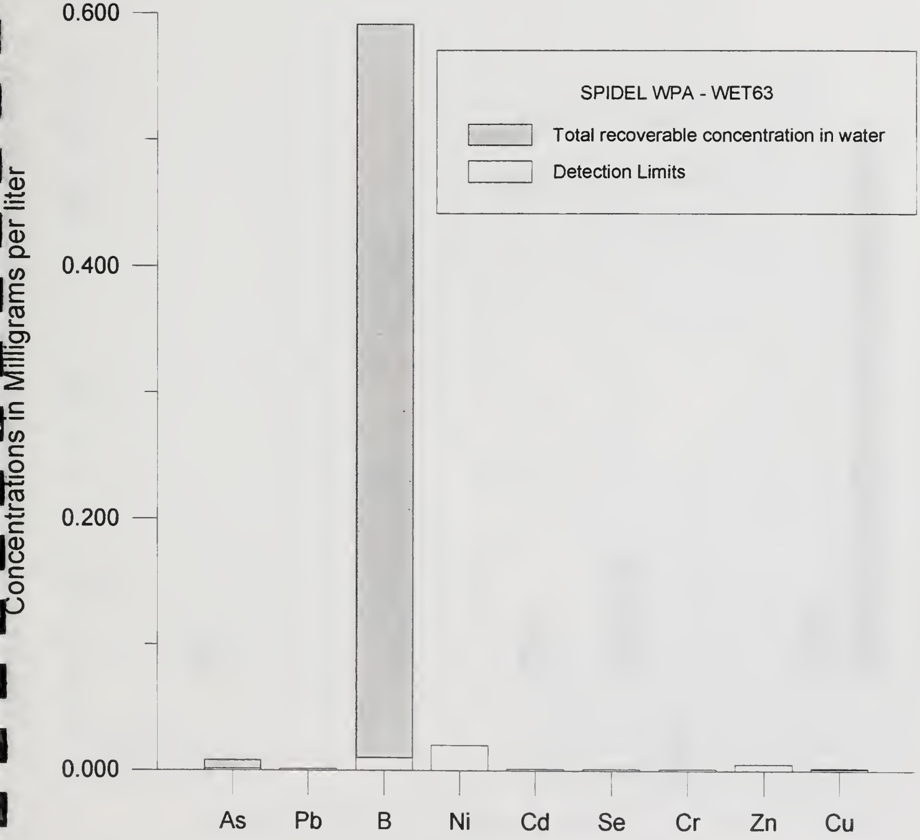
Mapped area of wetland:	675 acres
Area of contributing drainage basin:	27430 acres
Mapped elevation of wetland surface:	3796 ft
Maximum elevation within drainage basin:	4231 ft
Net relief of contributing basin:	435 ft

COE Hydrogeomorphic class:	DEPRESSIONAL
Primary surficial geologic unit	110"LAC"
Primary bedrock geologic unit	211LNCE

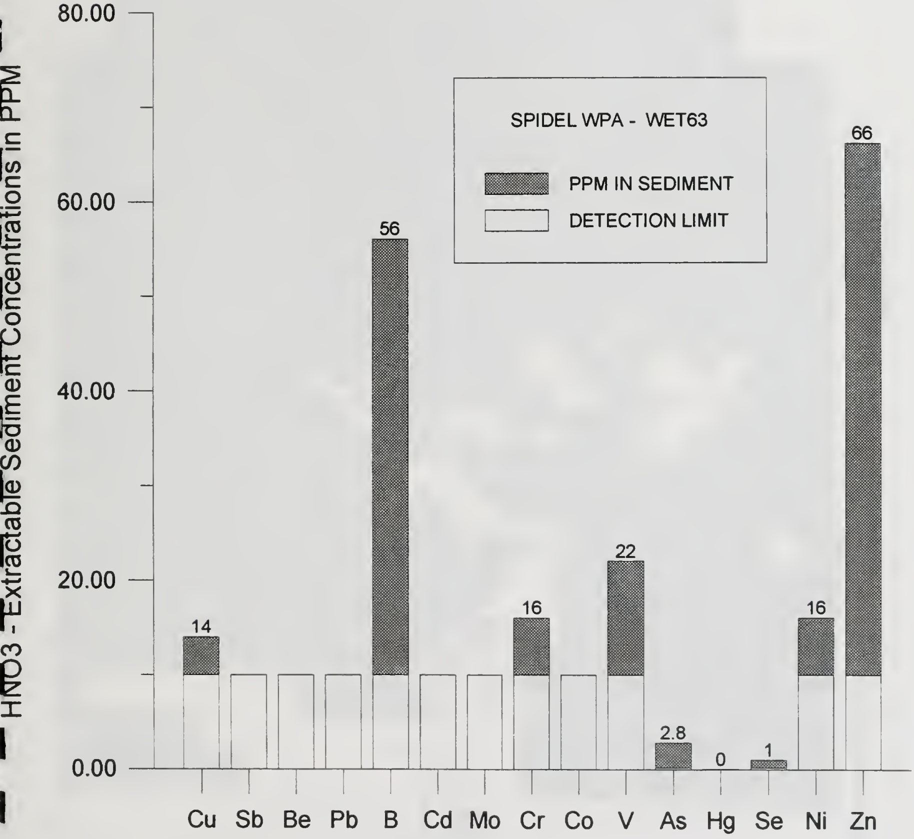


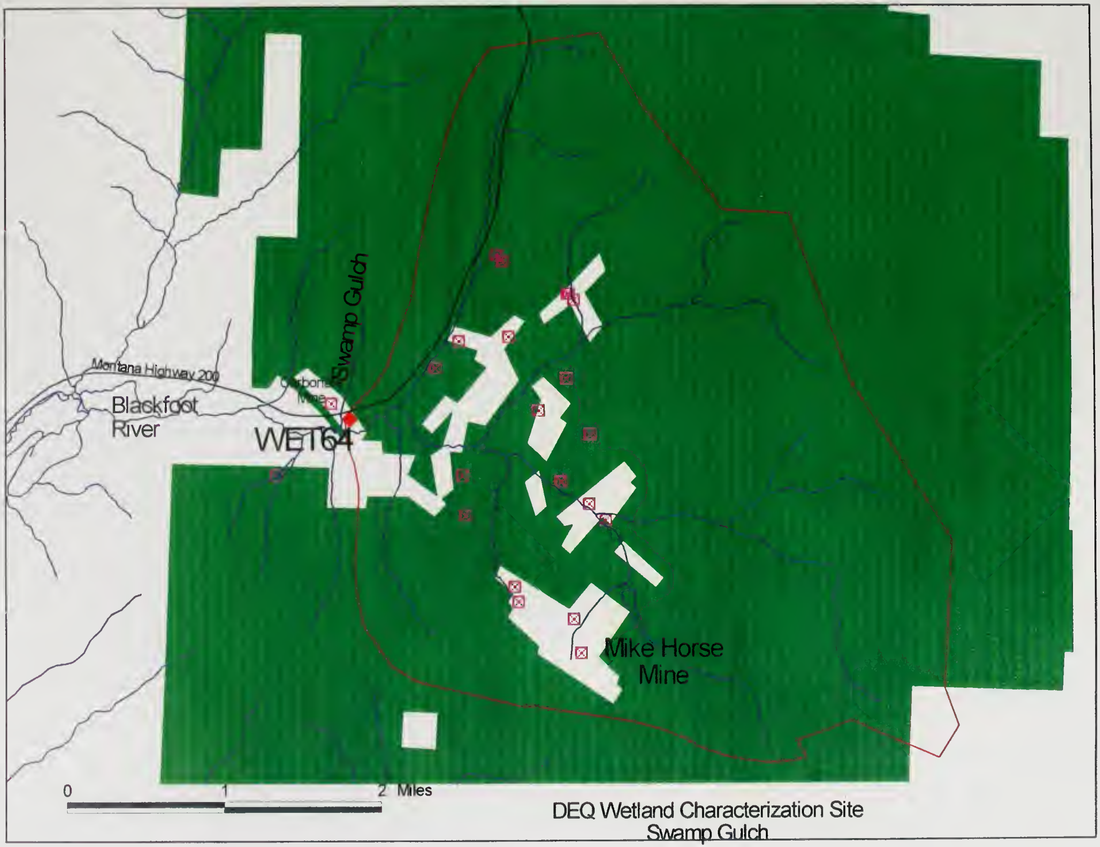
Total Annual Precipitation at Broadview
Showing Mean for Period of Record
and 3-Year Backward Moving Average


Monthly Mean, Maximum and Minimum Precipitation
Broadview Station (number)
Inches Precipitation
10.00
8.00
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec



Concentrations in Milligrams per liter
0.600
0.400
0.200
0.000
SPIDEL WPA - WET63
Total recoverable concentration in water
Detection Limits
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
80.00
60.00
40.00
20.00
0.00
SPIDEL WPA - WET63
PPM IN SEDIMENT
DETECTION LIMIT
14
56
16
22
2.8
0
1
16
66
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn


Swamp Gulch
Montana Highway 200
Carbonate Mine
Blackfoot River
WET64
Mike Horse Mine
0
1
2 Miles
DEQ Wetland Characterization Site
Swamp Gulch

Wetland: SWAMP GULCH WETLAND	Site Code: WET64
7.5 Minute Quad: CADOTTE CREEK	Lat: 47 2 35 Long: 112 23 35

Mean Annual Precipitation in Inches:	25.00
Mean Annual Potential Evaporation (Penman) in Inches:	29.00
'Net Precipitation' in Inches:	-4.00

Site has a mapped surface inlet.

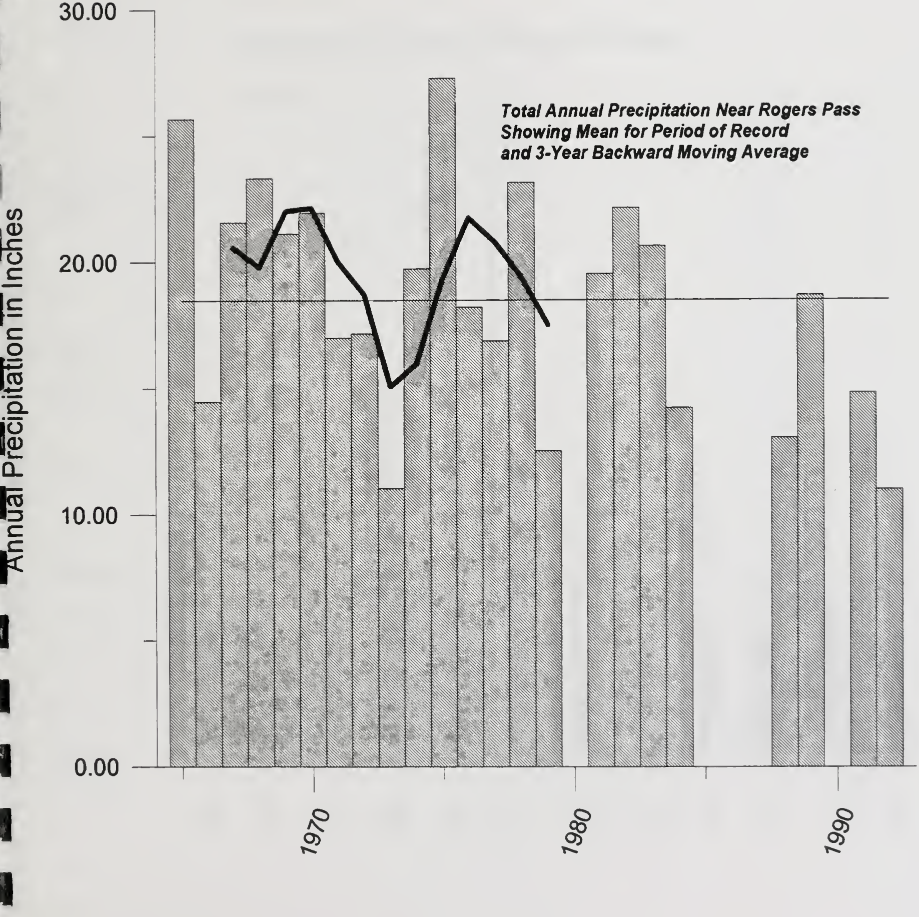
Site has a mapped surface outlet.

Site is not known to be artificially impounded.

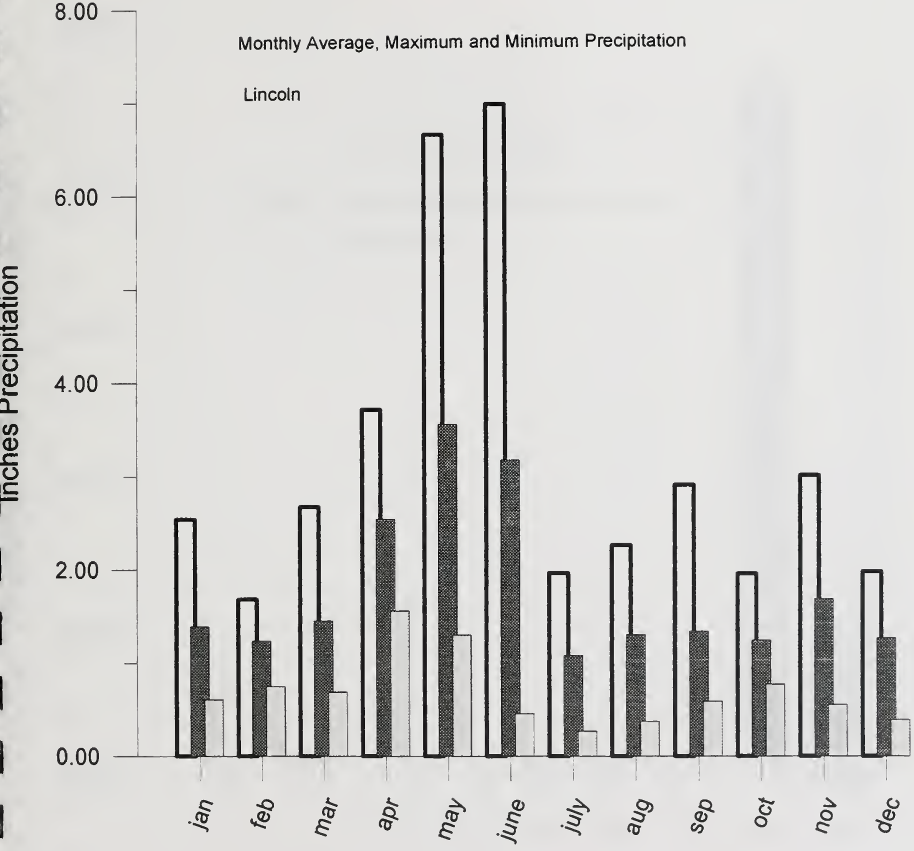
Site does not have known significant water imports.

Mapped area of wetland:	115 acres
Area of contributing drainage basin:	7680 acres
Mapped elevation of wetland surface:	5165 ft
Maximum elevation within drainage basin:	7497 ft
Net relief of contributing basin:	2332 ft

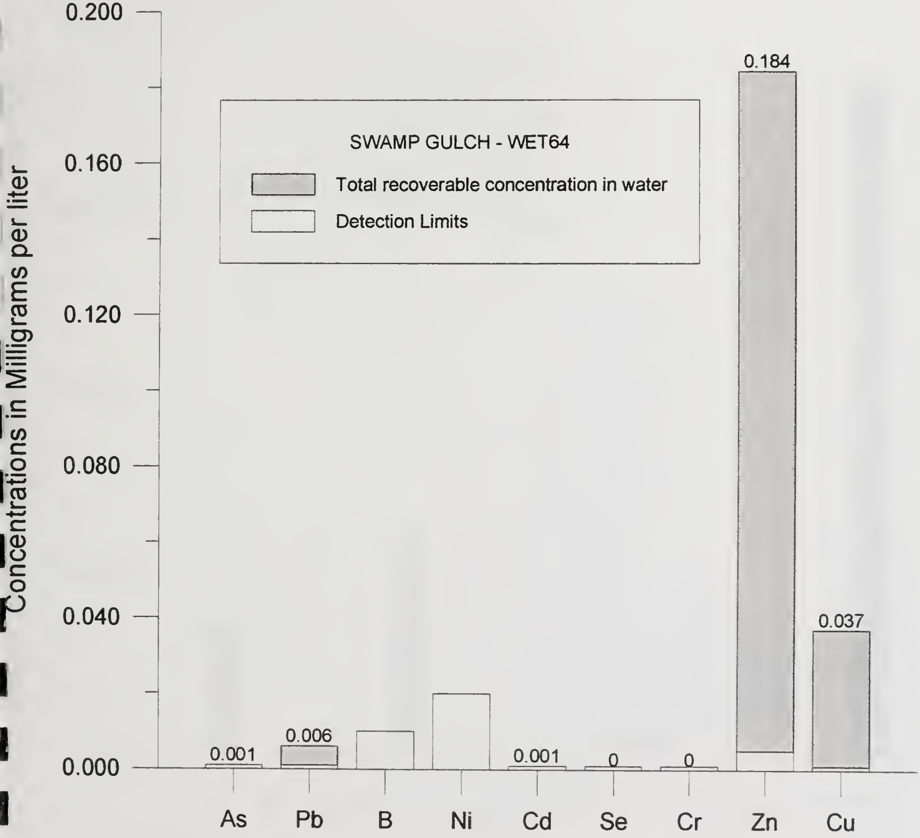
COE Hydrogeomorphic class:	RIVERINE
Primary surficial geologic unit	110ALVM
Primary bedrock geologic unit	400BELT



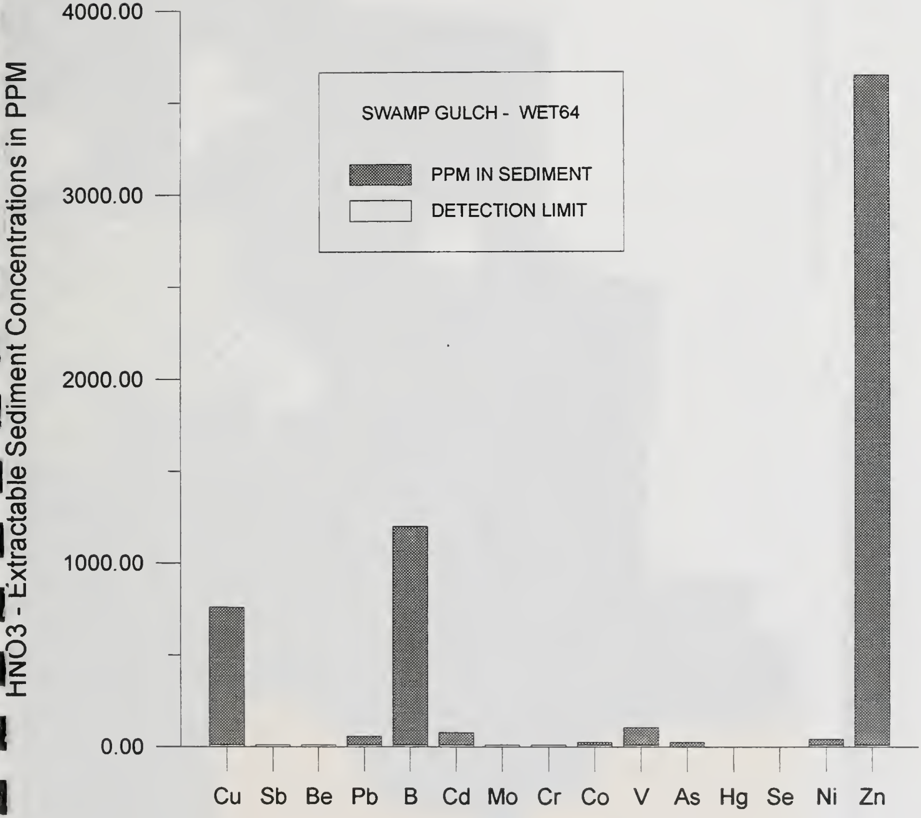
Total Annual Precipitation Near Rogers Pass
Showing Mean for Period of Record
and 3-Year Backward Moving Average

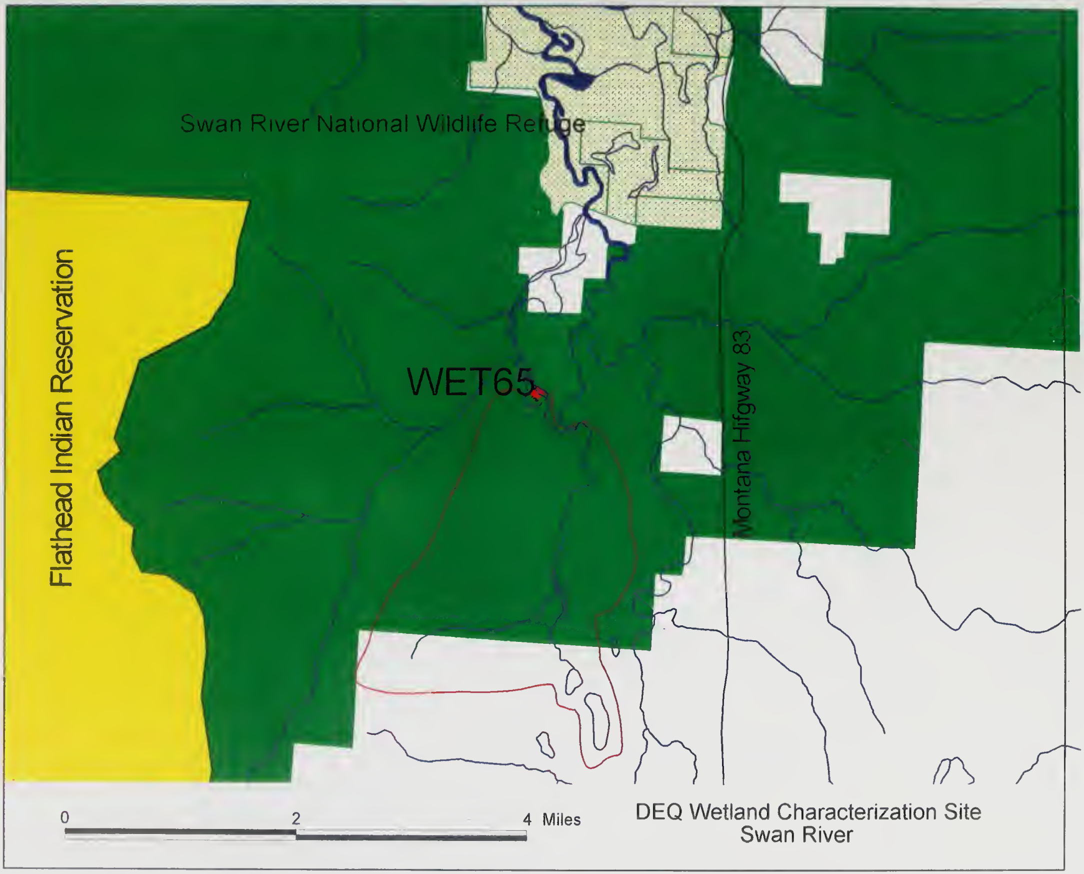


Monthly Average, Maximum and Minimum Precipitation
Lincoln
Inches Precipitation
8.00
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec



SWAMP GULCH - WET64
Total recoverable concentration in water
Detection Limits
Concentrations in Milligrams per liter
0.200
0.160
0.120
0.080
0.040
0.000
0.001
0.006
0.001
0
0
0.184
0.037
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
4000.00
3000.00
2000.00
1000.00
0.00
SWAMP GULCH - WET64
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn


DEQ Wetland Characterization Site
Swan River

Swan River National Wildlife Refuge
Flathead Indian Reservation
WET65
Montana Hifgway 83
0
2
4 Miles

Wetland: SWAN RIVER PROPOSED RNA

Site Code: WET65

7.5 Minute Quad: CILLY CREEK

Lat: 47 51 50
Long: 113 52 2

Mean Annual Precipitation in Inches:	25.00
Mean Annual Potential Evaporation (Penman) in Inches:	33.00
'Net Precipitation' in Inches:	-8.00

Site has a mapped surface inlet.

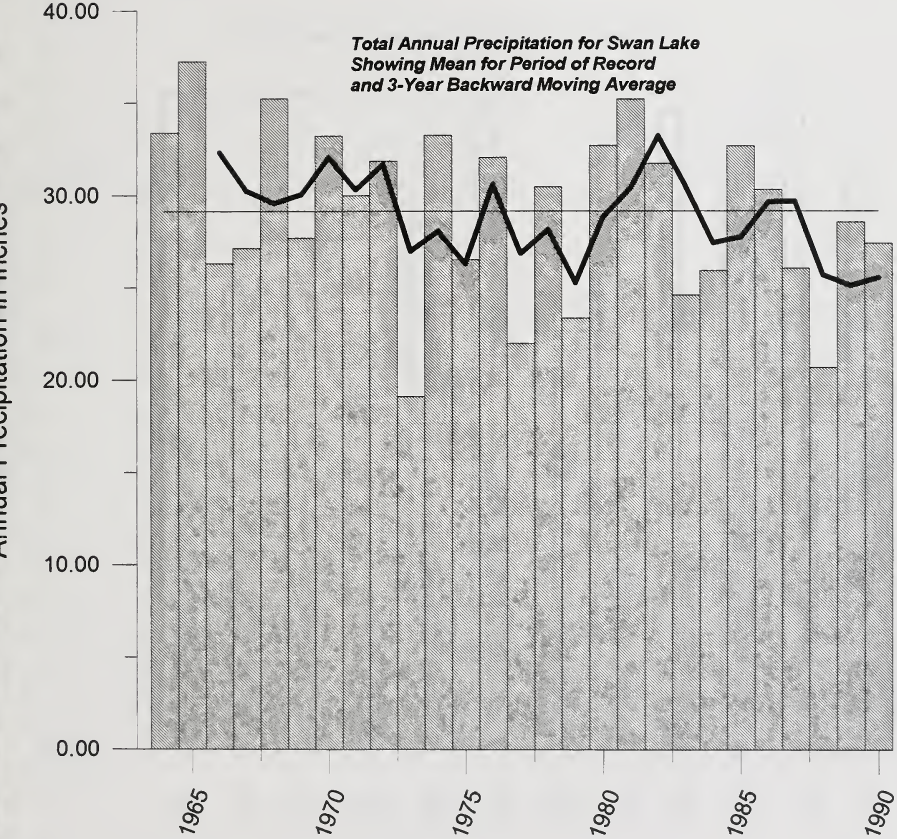
Site has a mapped surface outlet.

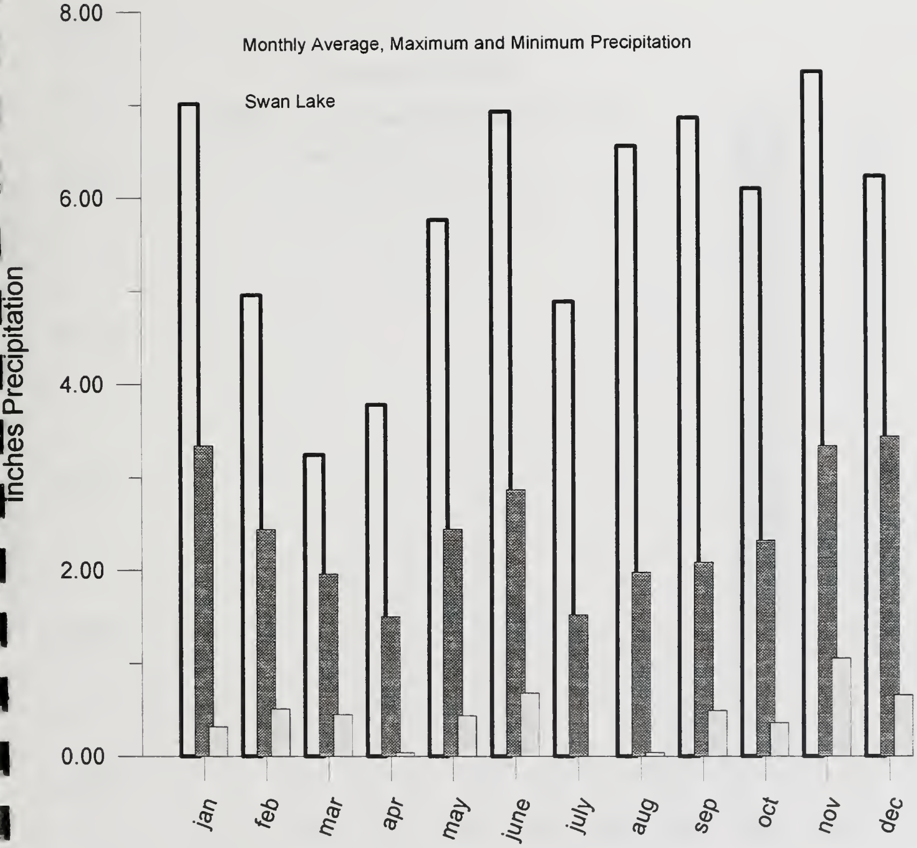
Site is not known to be artificially impounded.

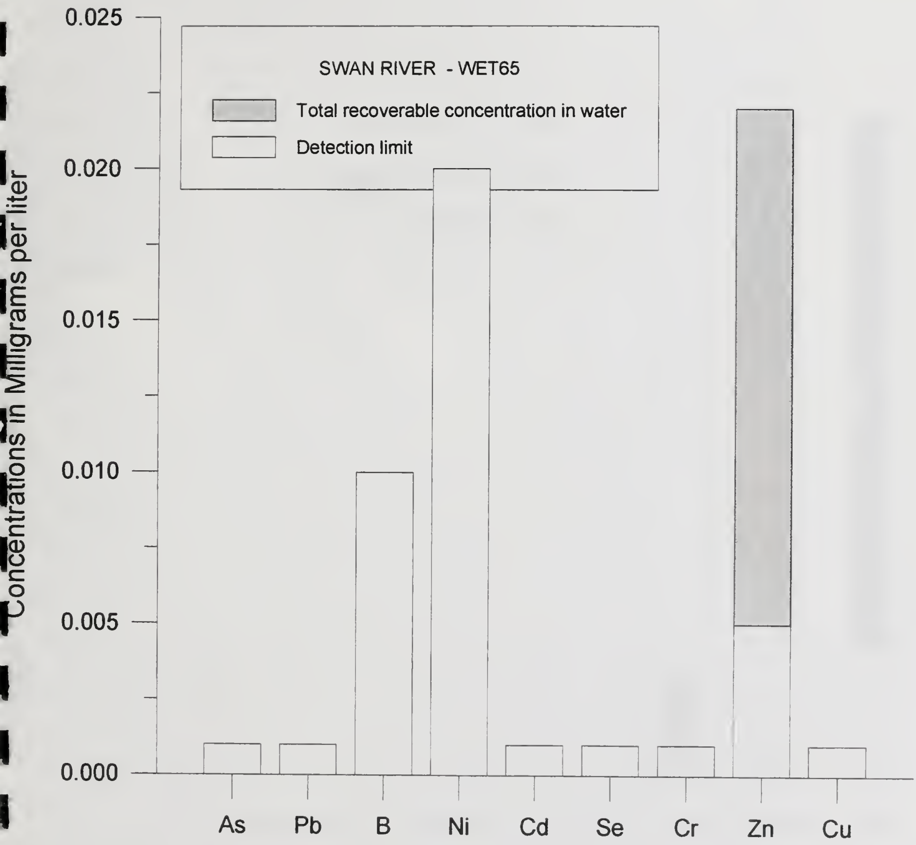
Site does not have known significant water imports.

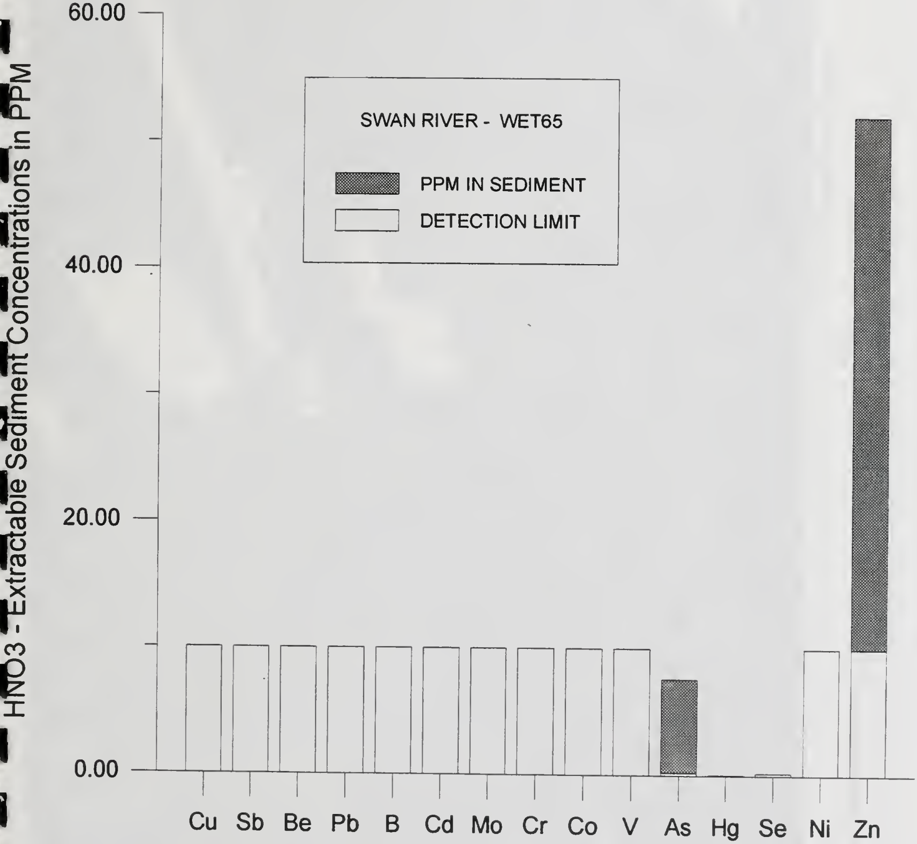
Mapped area of wetland:	40 acres
Area of contributing drainage basin:	2800 acres
Mapped elevation of wetland surface:	3095 ft
Maximum elevation within drainage basin:	5285 ft
Net relief of contributing basin:	2190 ft

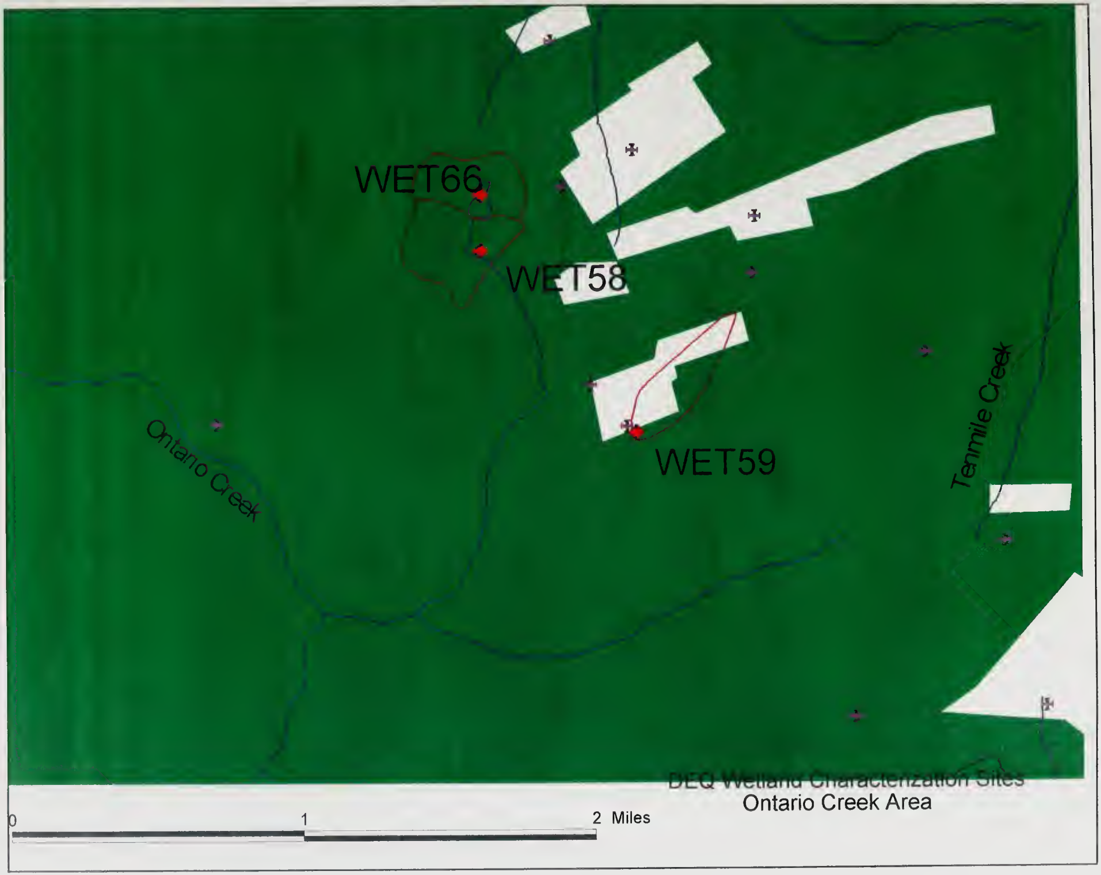
COE Hydrogeomorphic class:	RIVERINE
Primary surficial geologic unit	111ALVM
Primary bedrock geologic unit	400HELN


Total Annual Precipitation for Swan Lake
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
40.00
30.00
20.00
10.00
0.00
1965
1970
1975
1980
1985
1990


Monthly Average, Maximum and Minimum Precipitation
Swan Lake
Inches Precipitation
8.00
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


SWAN RIVER - WET65
Total recoverable concentration in water
Detection limit
Concentrations in Milligrams per liter
0.025
0.020
0.015
0.010
0.005
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
60.00
40.00
20.00
0.00
SWAN RIVER - WET65
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Sites
Ontario Creek Area

Wetland: TELEGRAPH CREEK HEADWATERS   Site Code: WET66

7.5 Minute Quad: THREE BROTHERS   Lat: 46 26 25
Long: 112 21 5

Mean Annual Precipitation in Inches: 25.00

Mean Annual Potential Evaporation (Penman) in Inches: 28.00

'Net Precipitation' in Inches: -3.00

Site does not have a mapped surface inlet.

Site has a mapped surface outlet.

Site is not known to be artificially impounded.

Site does not have known significant water imports.

Mapped area of wetland: 4 acres

Area of contributing drainage basin: 43 acres

Mapped elevation of wetland surface: 7020 ft

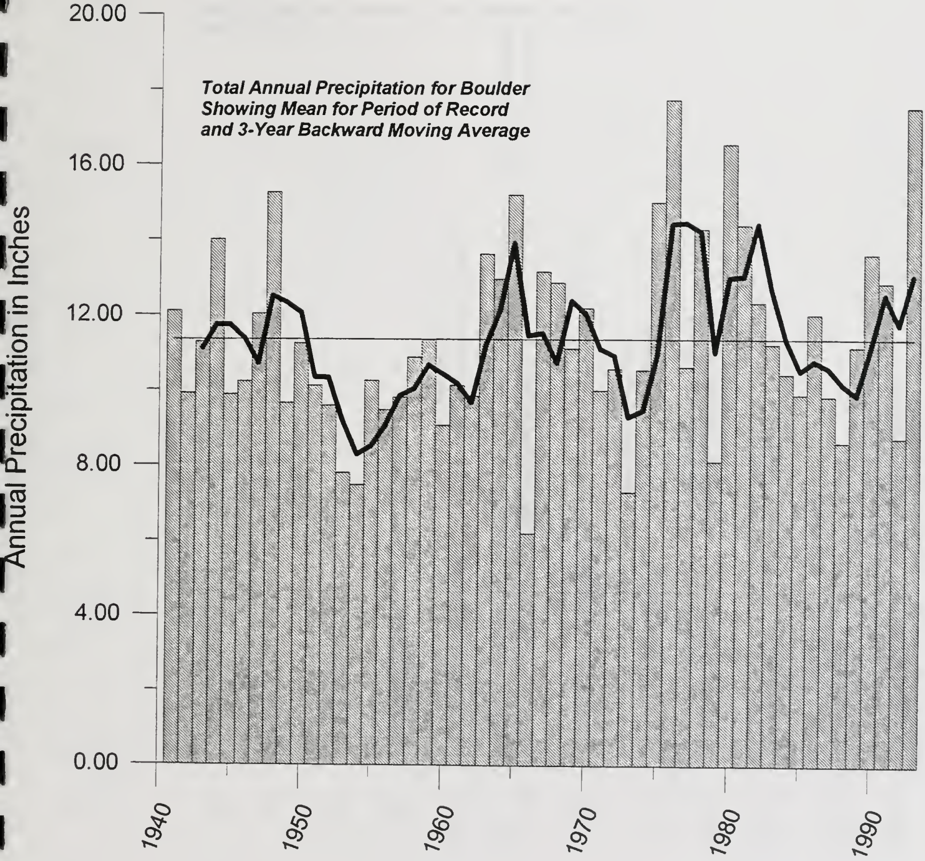
Maximum elevation within drainage basin: 7125 ft

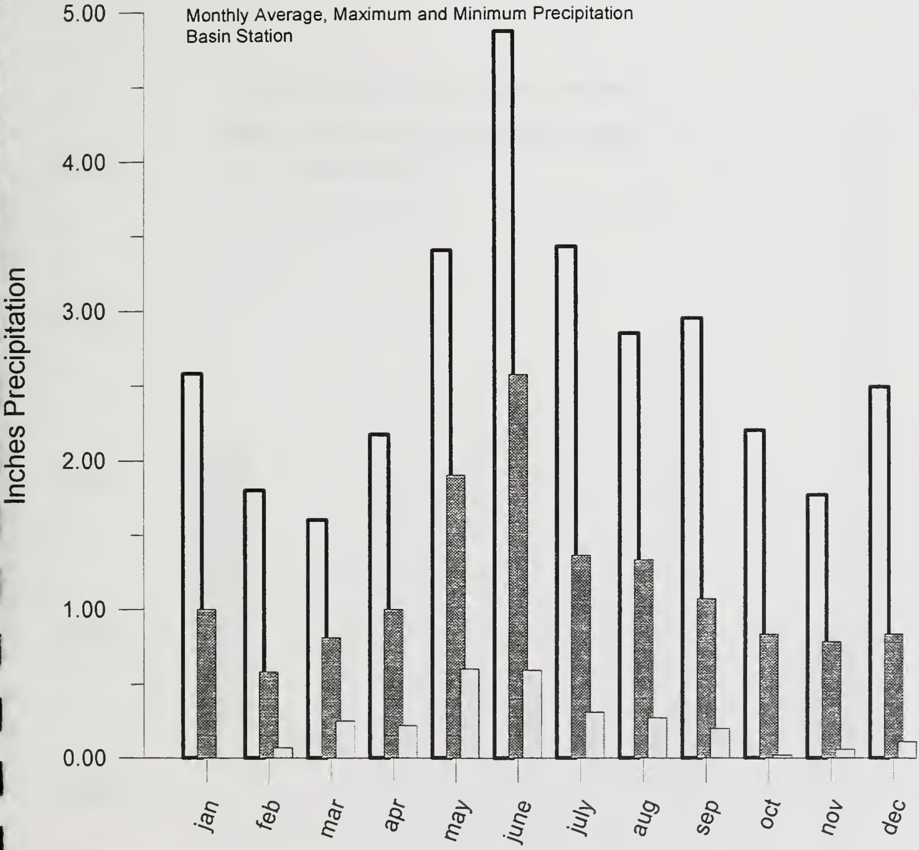
Net relief of contributing basin: 105 ft

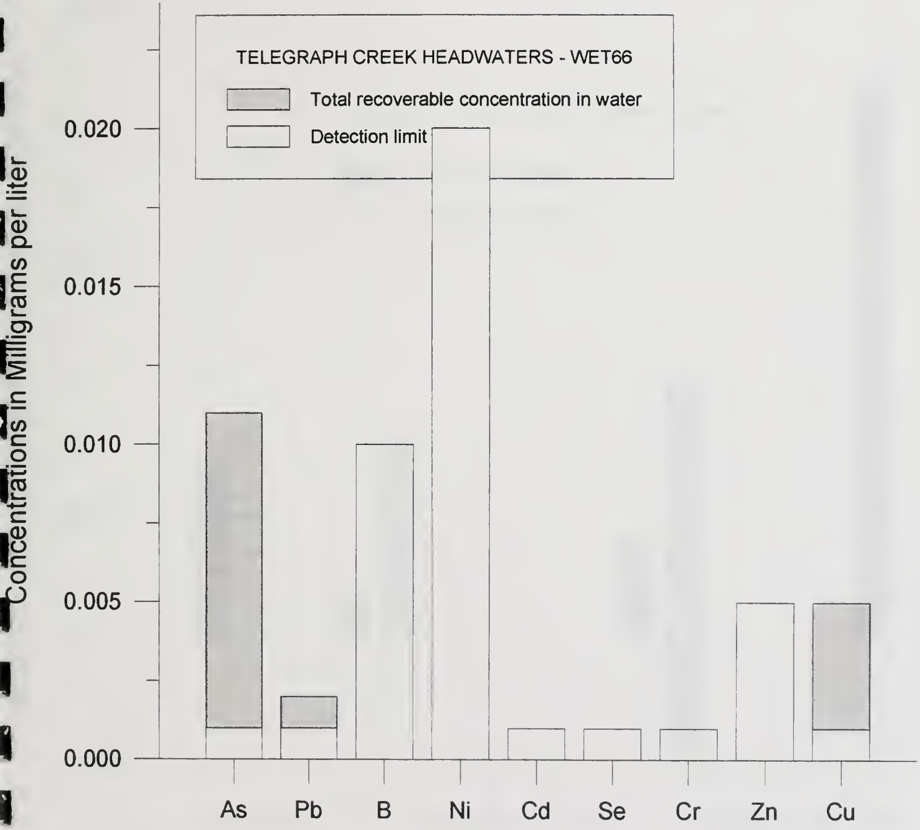
COE Hydrogeomorphic class: EXTENS PEAT

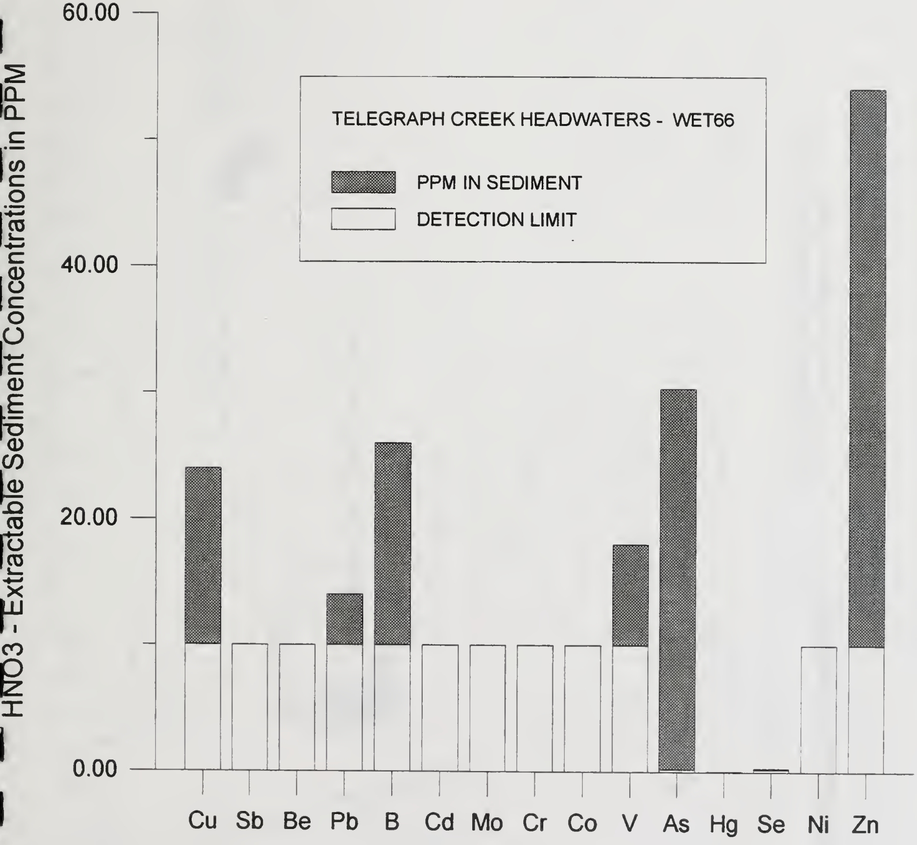
Primary surficial geologic unit 112DRFT

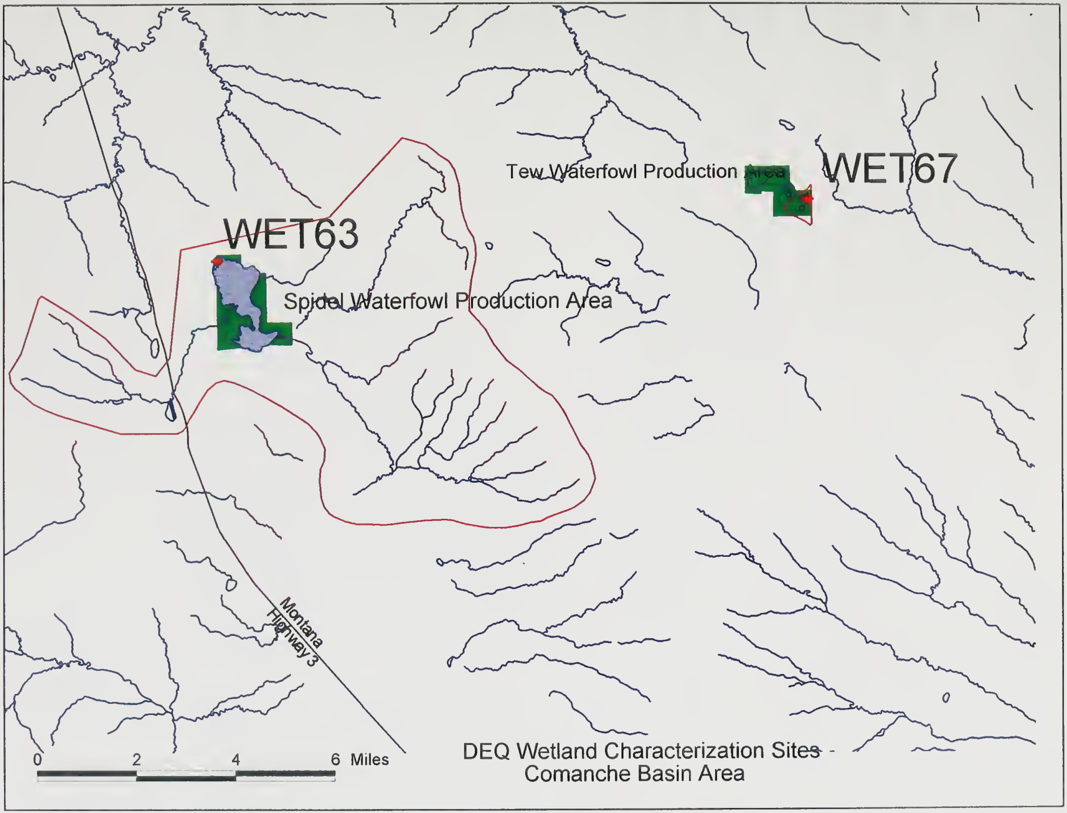
Primary bedrock geologic unit 211ELKM


Total Annual Precipitation for Boulder
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
20.00
16.00
12.00
8.00
4.00
0.00
1940
1950
1960
1970
1980
1990


Monthly Average, Maximum and Minimum Precipitation
Basin Station
Inches Precipitation
5.00
4.00
3.00
2.00
1.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


TELEGRAPH CREEK HEADWATERS - WET66
Total recoverable concentration in water
Detection limit
Concentrations in Milligrams per liter
0.020
0.015
0.010
0.005
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
60.00
40.00
20.00
0.00
TELEGRAPH CREEK HEADWATERS - WET66
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



WET67
Tew Waterfowl Production Area
WET63
Spidel Waterfowl Production Area
Montana Highway 3
0
2
4
6 Miles

DEQ Wetland Characterization Sites - Comanche Basin Area

Wetland: TEW WPA	Site Code: WET67
7.5 Minute Quad: HAY BASIN NORTHEAST	Lat: 46 10 0 Long: 108 36 50

Mean Annual Precipitation in Inches:	15.00
Mean Annual Potential Evaporation (Penman) in Inches:	42.00
'Net Precipitation' in Inches:	-27.00

Site does not have a mapped surface inlet.

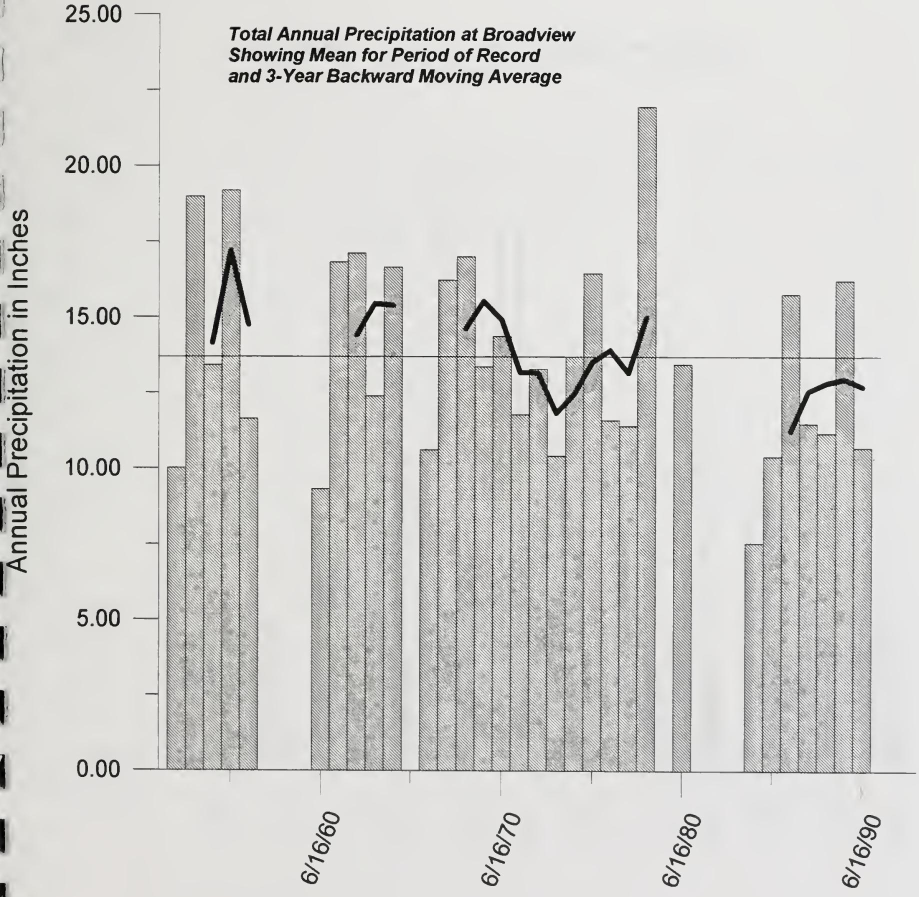
Site does not have a mapped surface outlet.

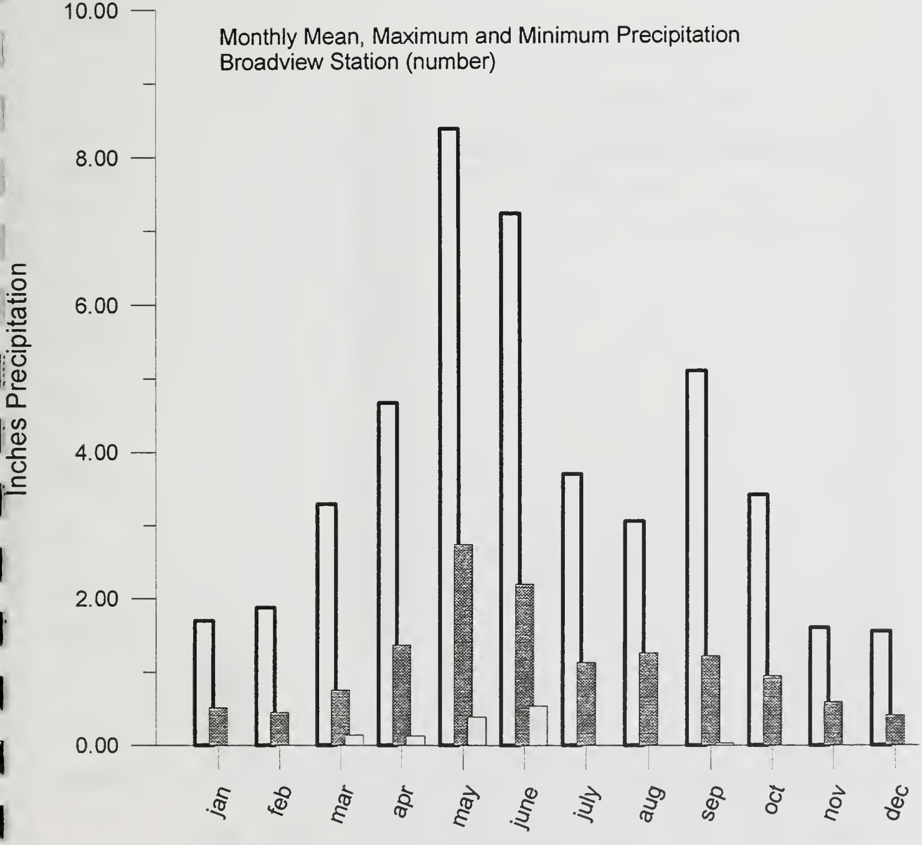
Site is not known to be artificially impounded.

Site does not have known significant water imports.

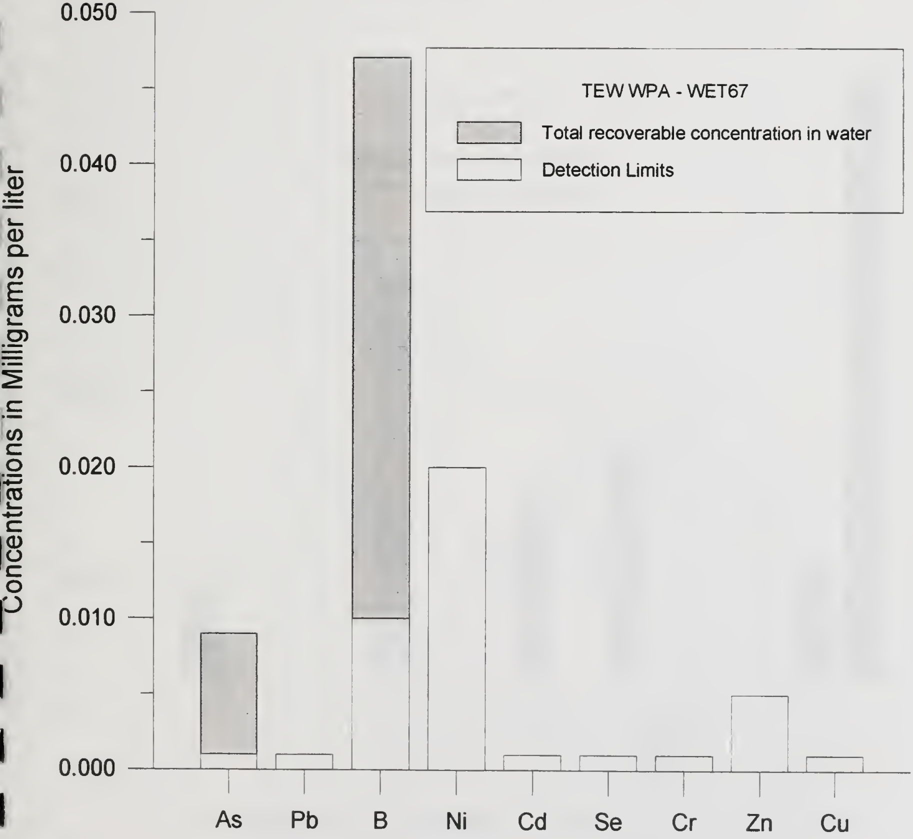
Mapped area of wetland:	11 acres
Area of contributing drainage basin:	160 acres
Mapped elevation of wetland surface:	3930 ft
Maximum elevation within drainage basin:	4020 ft
Net relief of contributing basin:	90 ft

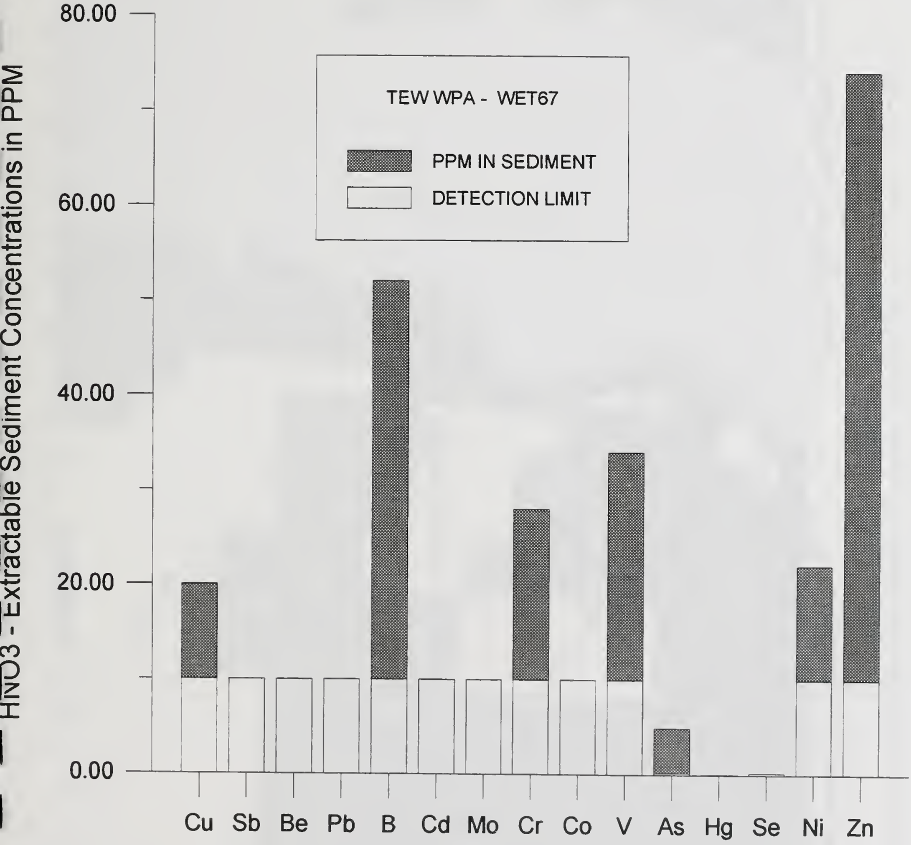
COE Hydrogeomorphic class:	DEPRESSIONAL
Primary surficial geologic unit	
Primary bedrock geologic unit	125LEBO

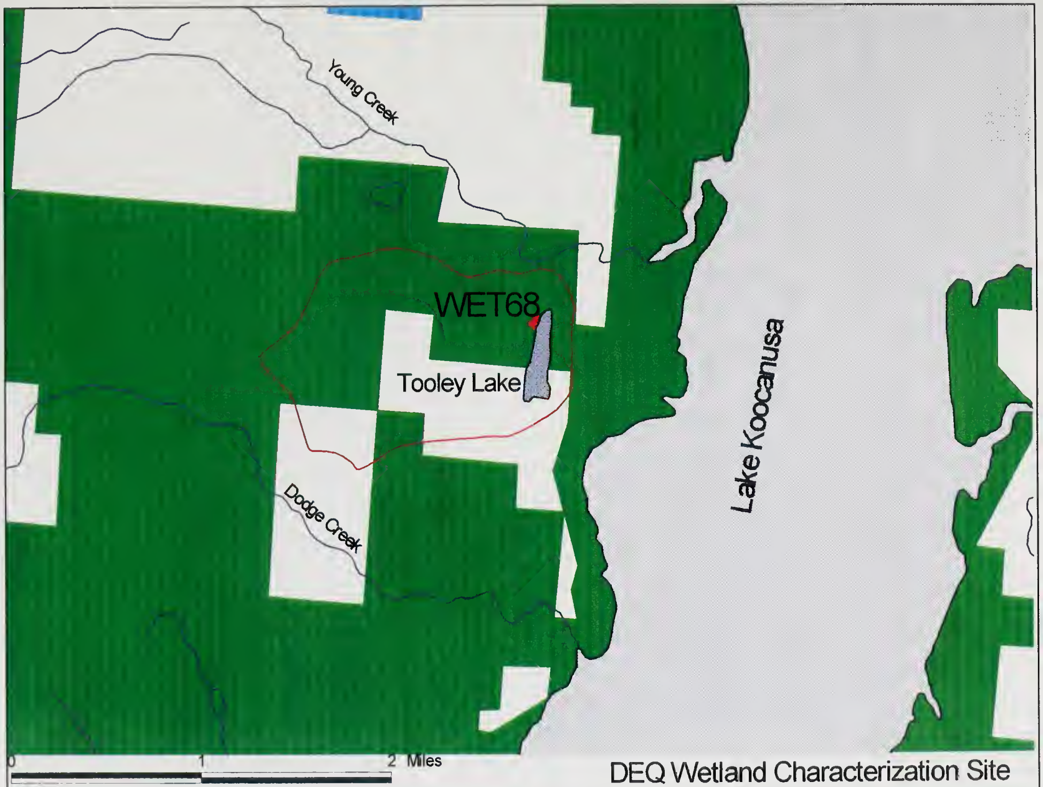

Total Annual Precipitation at Broadview
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
25.00
20.00
15.00
10.00
5.00
0.00
6/16/60
6/16/70
6/16/80
6/16/90



Monthly Mean, Maximum and Minimum Precipitation
Broadview Station (number)


TEW WPA - WET67
Total recoverable concentration in water
Detection Limits
Concentrations in Milligrams per liter
0.050
0.040
0.030
0.020
0.010
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
80.00
60.00
40.00
20.00
0.00
TEW WPA - WET67
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Site
Tooley Lake

Wetland: TOOLEY LAKE	Site Code: WET68
7.5 Minute Quad: REXFORD	Lat: 48 57 20 Long: 115 12 5

Mean Annual Precipitation in Inches:	15.00
Mean Annual Potential Evaporation (Penman) in Inches:	29.00
'Net Precipitation' in Inches:	-14.00

Site has a mapped surface inlet.

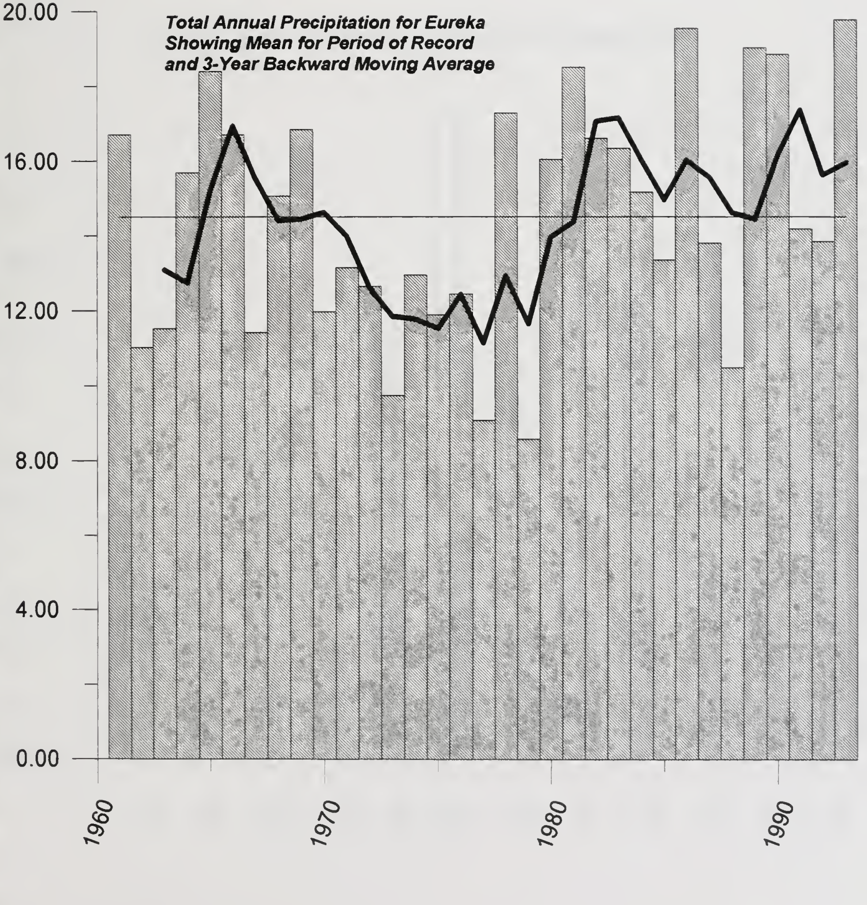
Site does not have a mapped surface outlet.

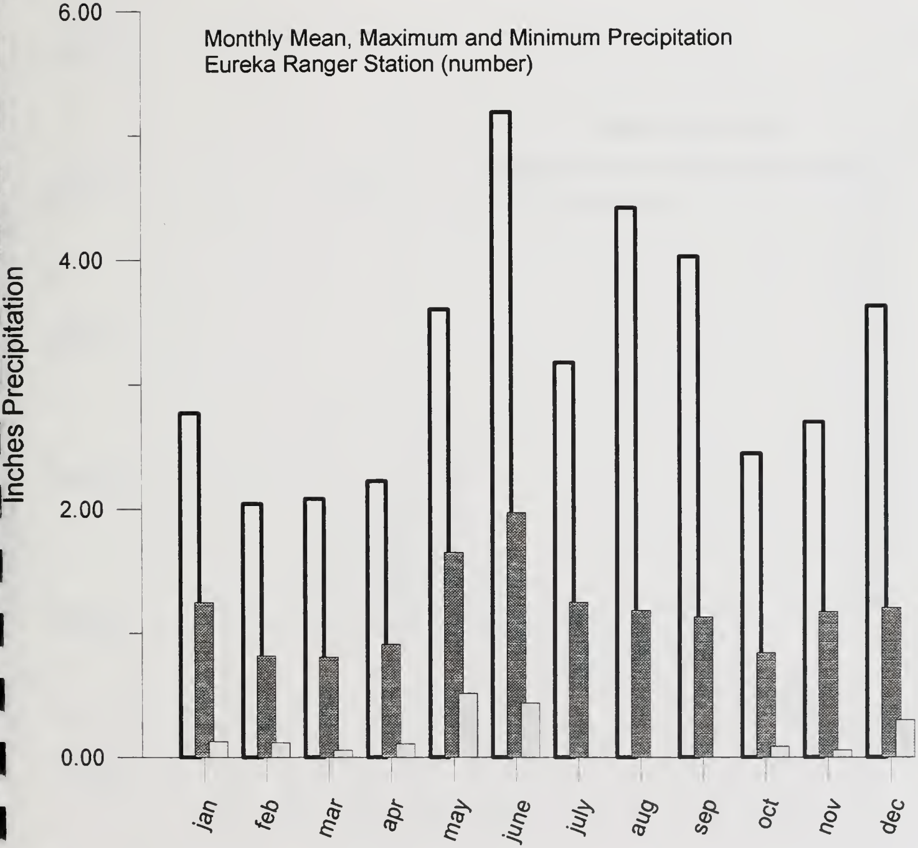
Site is not known to be artificially impounded.

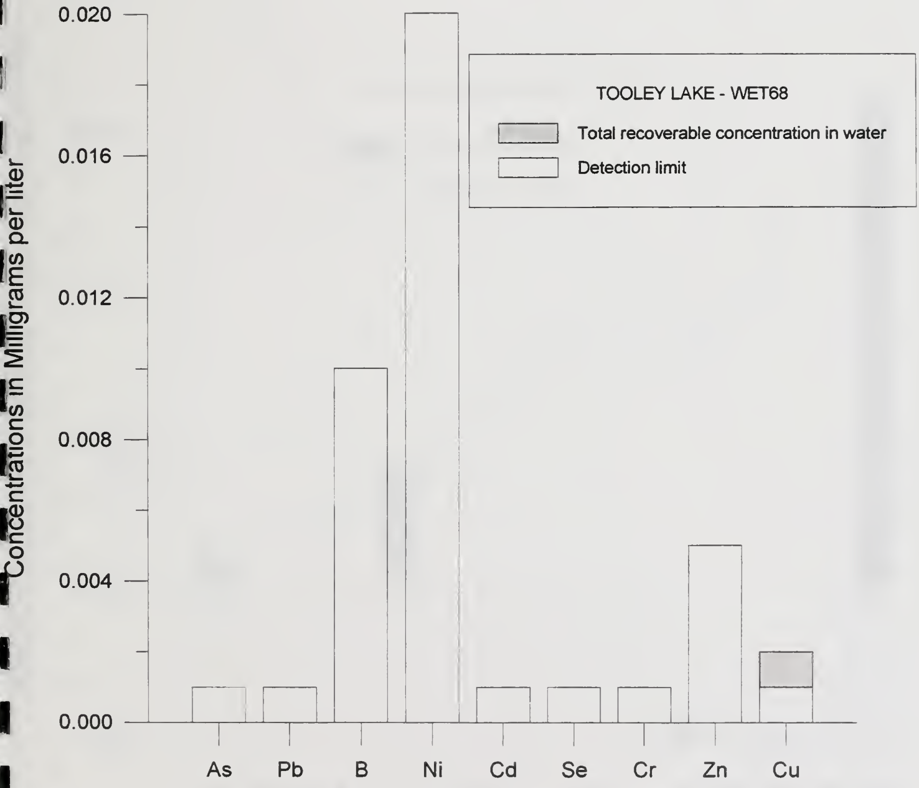
Site does not have known significant water imports.

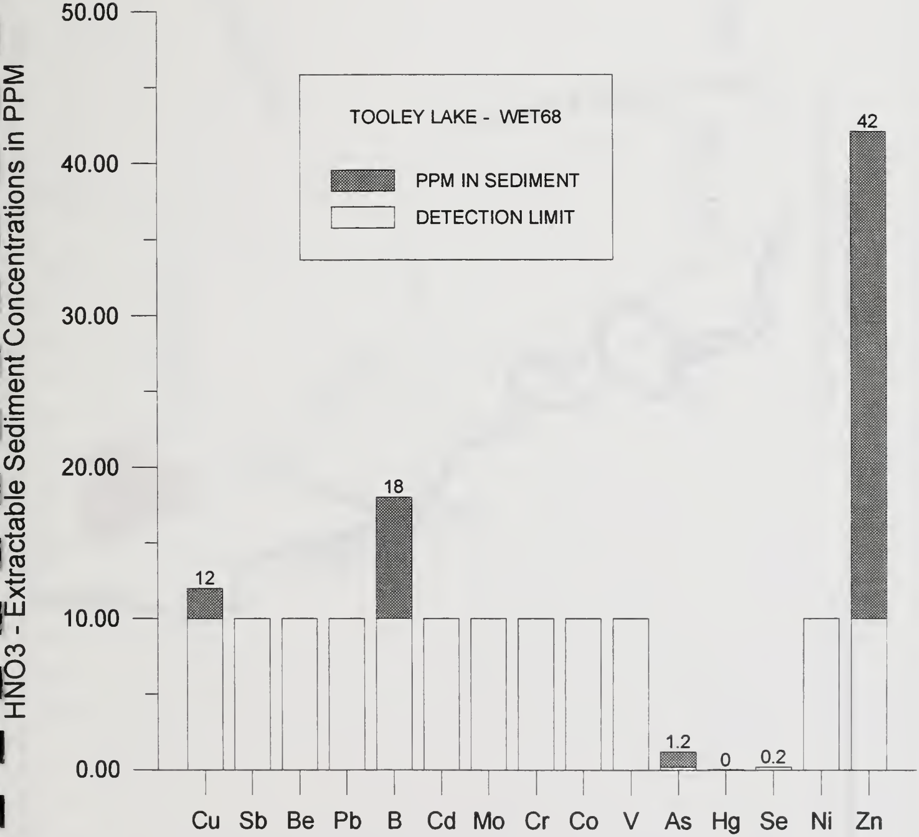
Mapped area of wetland:	29 acres
Area of contributing drainage basin:	860 acres
Mapped elevation of wetland surface:	2537 ft
Maximum elevation within drainage basin:	3205 ft
Net relief of contributing basin:	668 ft

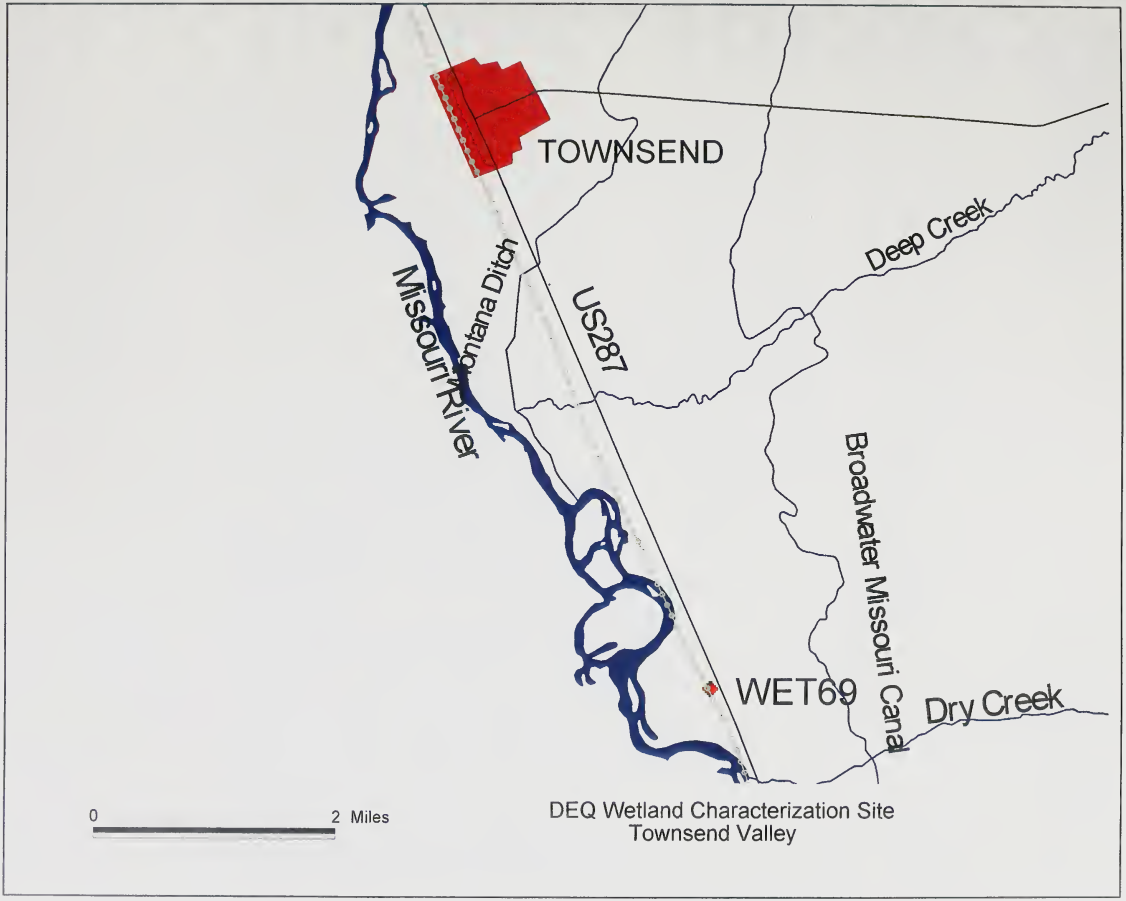
COE Hydrogeomorphic class:	FRINGE
Primary surficial geologic unit	112GLCC
Primary bedrock geologic unit	400RVLL


Total Annual Precipitation for Eureka
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
20.00
16.00
12.00
8.00
4.00
0.00
1960
1970
1980
1990


Monthly Mean, Maximum and Minimum Precipitation
Eureka Ranger Station (number)
Inches Precipitation
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


Concentrations in Milligrams per liter
0.020
0.016
0.012
0.008
0.004
0.000
TOOLEY LAKE - WET68
Total recoverable concentration in water
Detection limit
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
50.00
40.00
30.00
20.00
10.00
0.00
TOOLEY LAKE - WET68
PPM IN SEDIMENT
DETECTION LIMIT
12
18
1.2
0
0.2
42
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Site
Townsend Valley

Wetland: TOWNSEND VALLEY WETLAND	Site Code: WET69
7.5 Minute Quad: Holker	Lat: 46 15 10 Long: 111 28 35

Mean Annual Precipitation in Inches:	13.00
Mean Annual Potential Evaporation (Penman) in Inches:	41.00
'Net Precipitation' in Inches:	-28.00

Site does not have a mapped surface inlet.

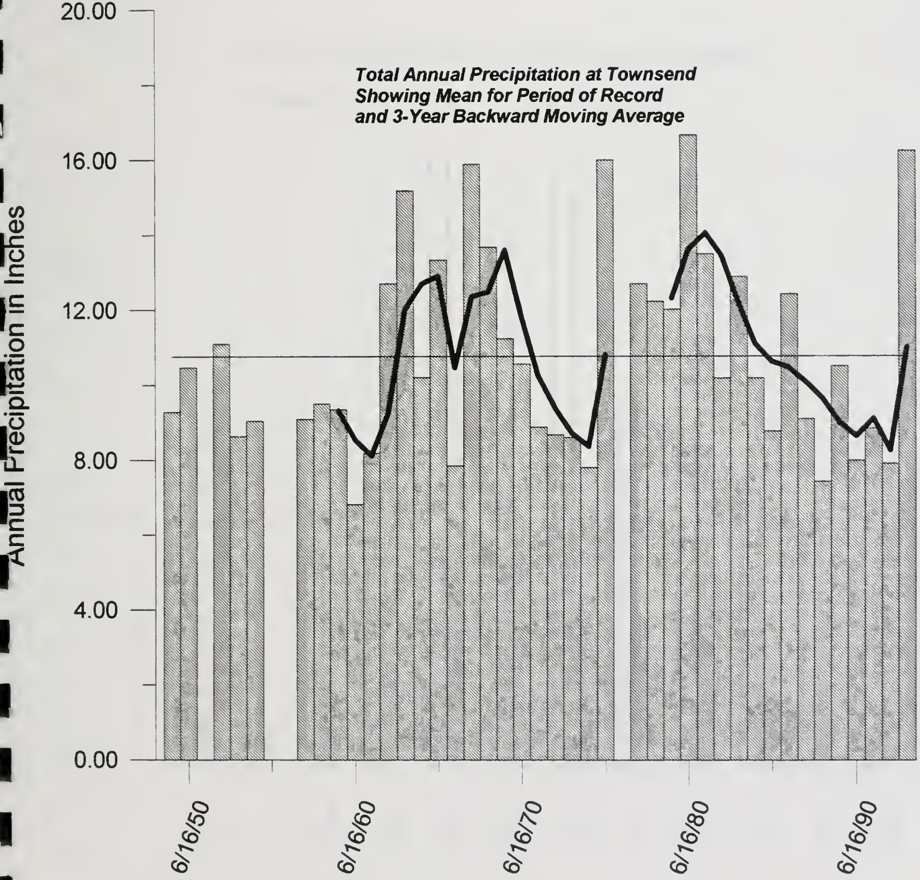
Site does not have a mapped surface outlet.

Site is not known to be artificially impounded.

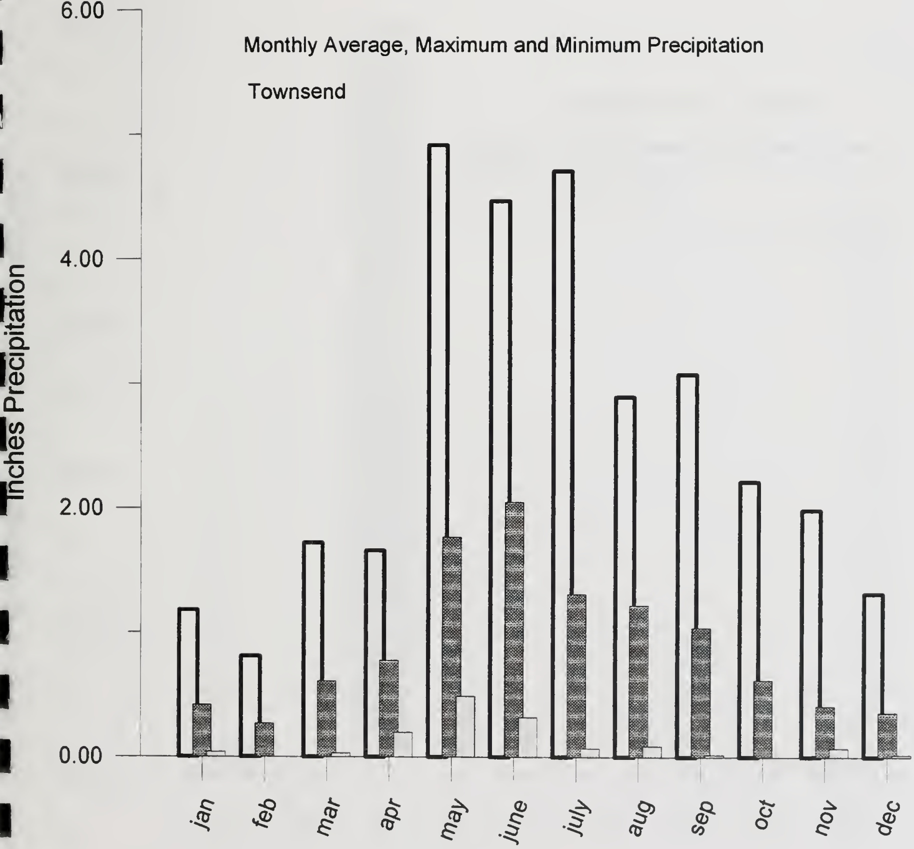
Site does not have known significant water imports.

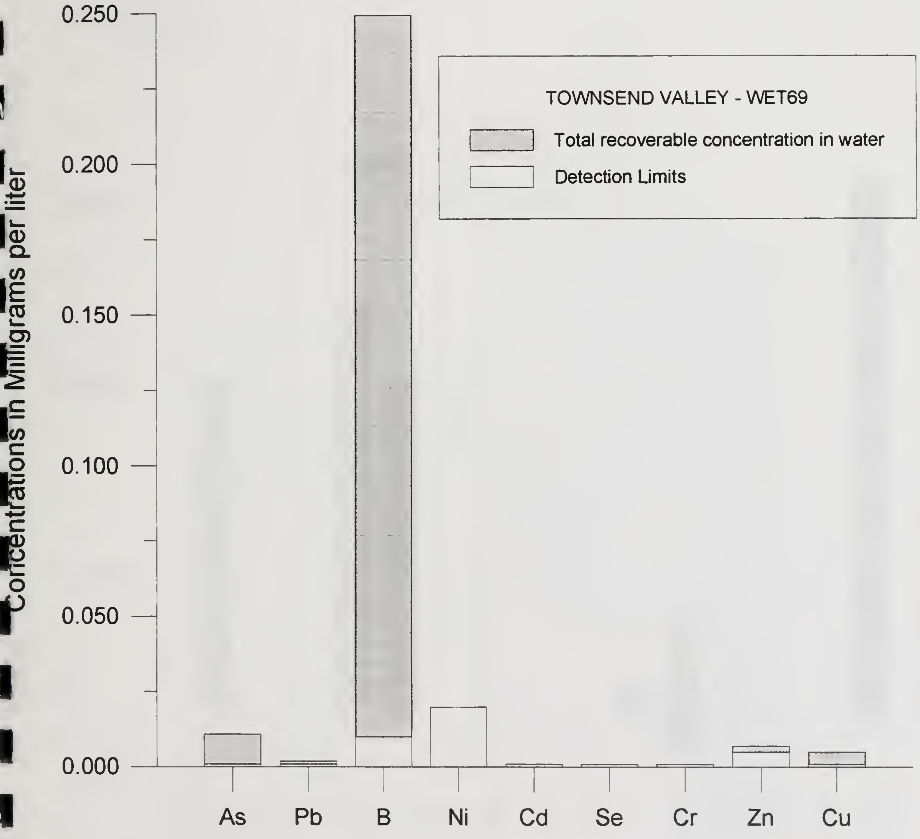
Mapped area of wetland:	1 acres
Area of contributing drainage basin:	4 acres
Mapped elevation of wetland surface:	3855 ft
Maximum elevation within drainage basin:	3860 ft
Net relief of contributing basin:	5 ft

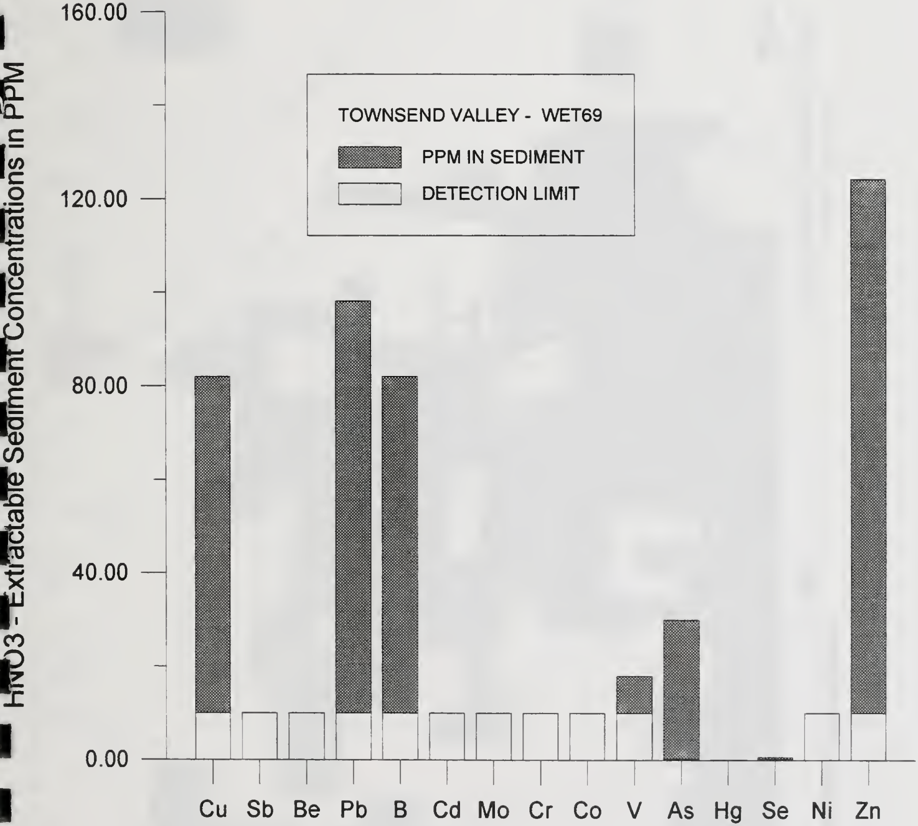
COE Hydrogeomorphic class:	DEPRESSIONAL
Primary surficial geologic unit	110ALVM
Primary bedrock geologic unit	120SDMS

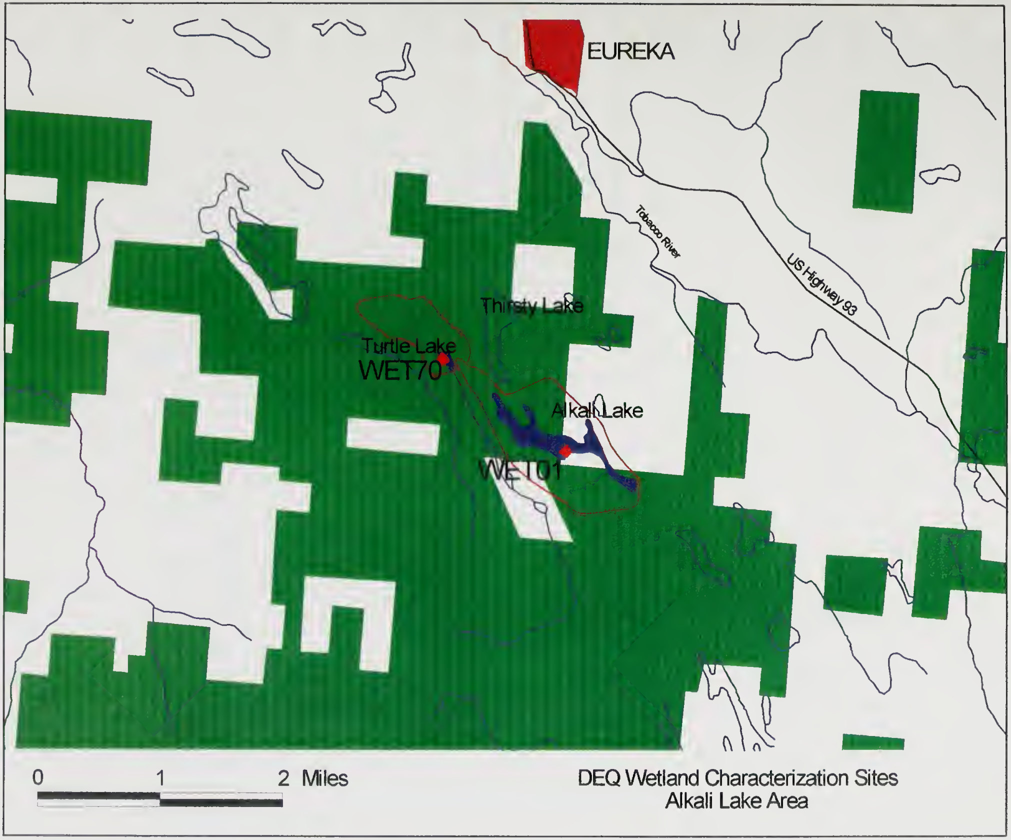


Total Annual Precipitation at Townsend Showing Mean for Period of Record and 3-Year Backward Moving Average


Monthly Average, Maximum and Minimum Precipitation
Townsend
Inches Precipitation
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


TOWNSEND VALLEY - WET69
Total recoverable concentration in water
Detection Limits
Concentrations in Milligrams per liter
0.250
0.200
0.150
0.100
0.050
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


TOWNSEND VALLEY - WET69
PPM IN SEDIMENT
DETECTION LIMIT
HNO3 - Extractable Sediment Concentrations in PPM
160.00
120.00
80.00
40.00
0.00
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Sites
Alkali Lake Area

Wetland: TURTLE LAKE
Site Code: WET70

7.5 Minute Quad: EUREKA SOUTH
Lat: 48 50 35
Long: 115 3 50

Mean Annual Precipitation in Inches: 19.00

Mean Annual Potential Evaporation (Penman) in Inches: 30.00

'Net Precipitation' in Inches: -11.00

Site has a mapped surface inlet.

Site does not have a mapped surface outlet.

Site is not known to be artificially impounded.

Site does not have known significant water imports.

Mapped area of wetland: 7 acres

Area of contributing drainage basin: 200 acres

Mapped elevation of wetland surface: 3030 ft

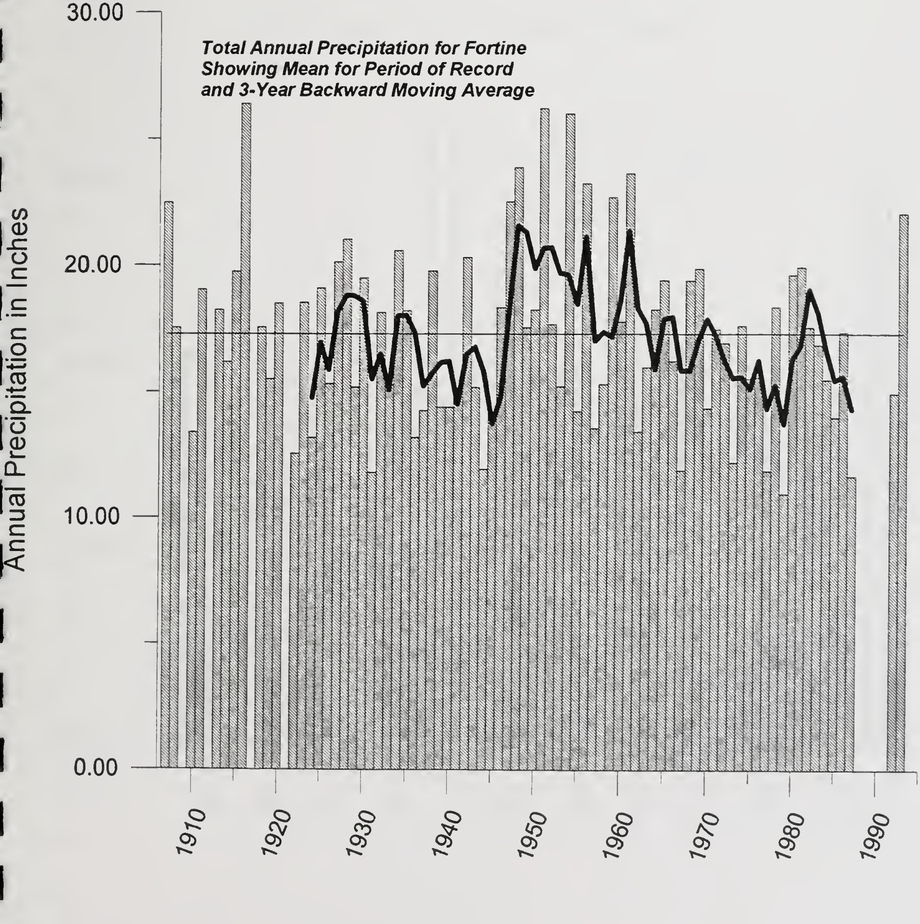
Maximum elevation within drainage basin: 3265 ft

Net relief of contributing basin: 235 ft

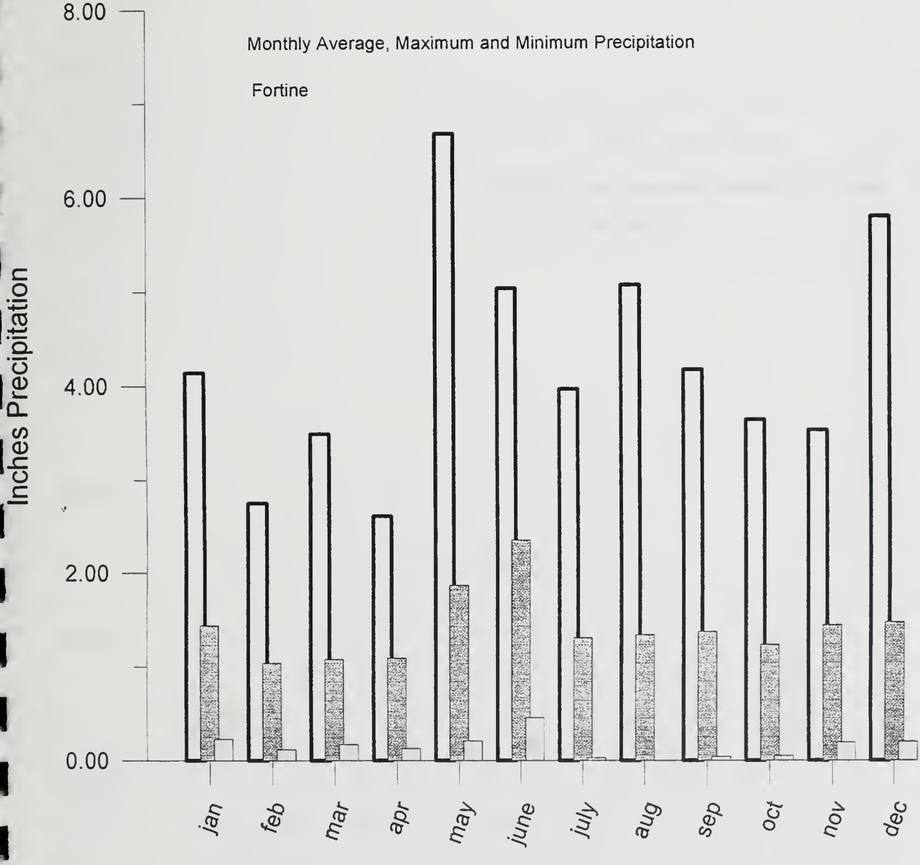
COE Hydrogeomorphic class: FRINGE

Primary surficial geologic unit 112TILL

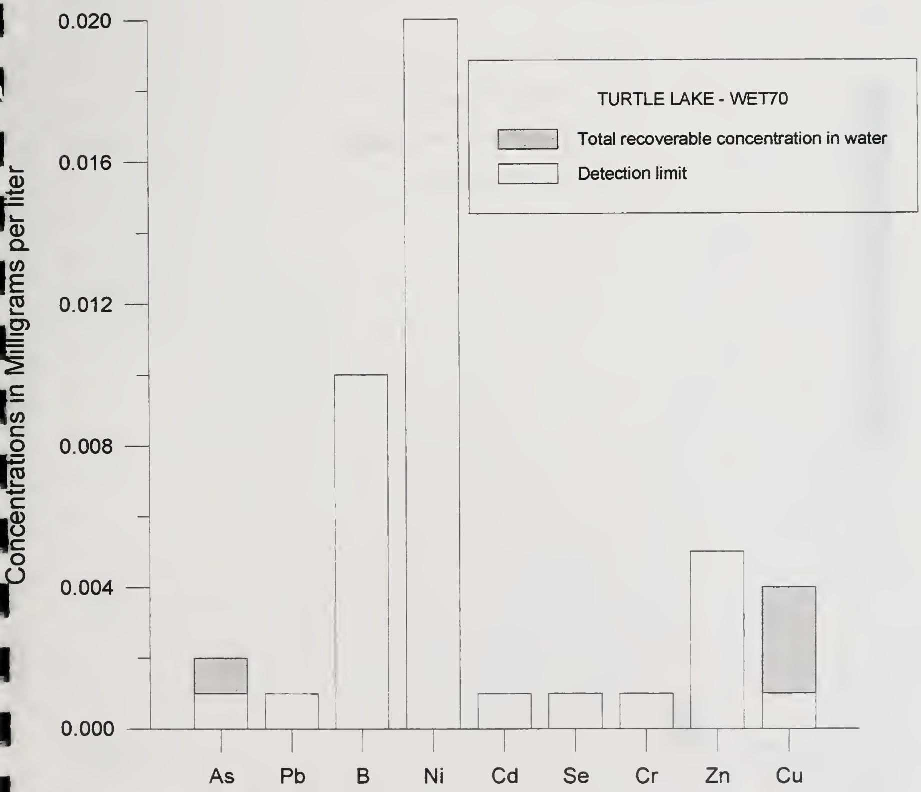
Primary bedrock geologic unit 400BELT



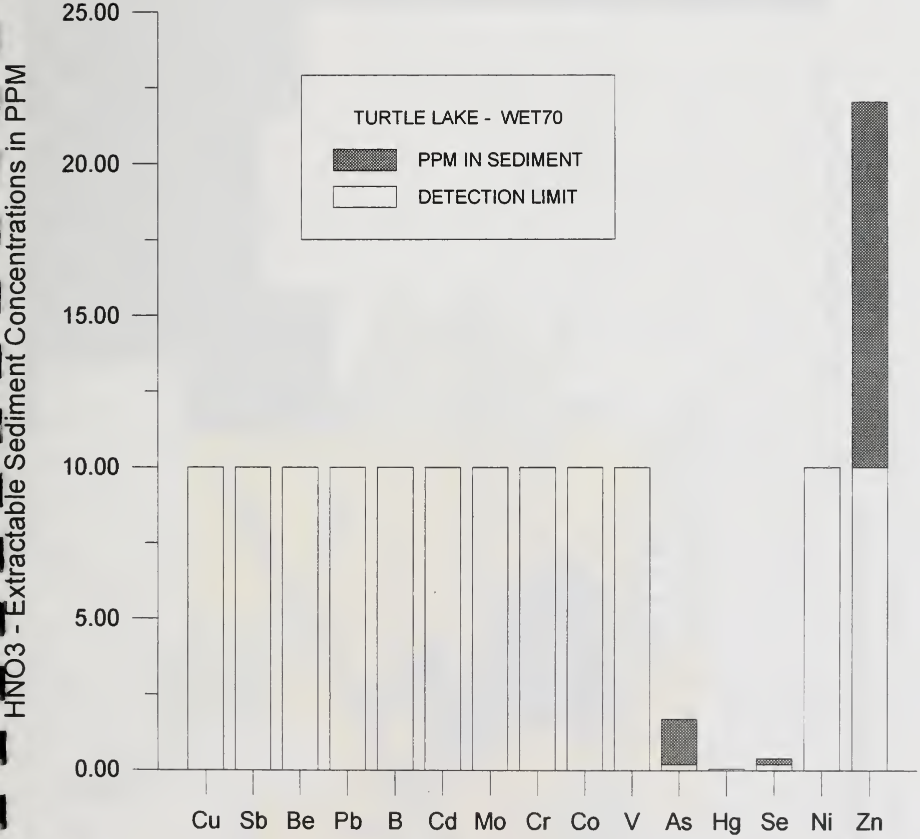
Total Annual Precipitation for Fortine
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
30.00
20.00
10.00
0.00
1910
1920
1930
1940
1950
1960
1970
1980
1990

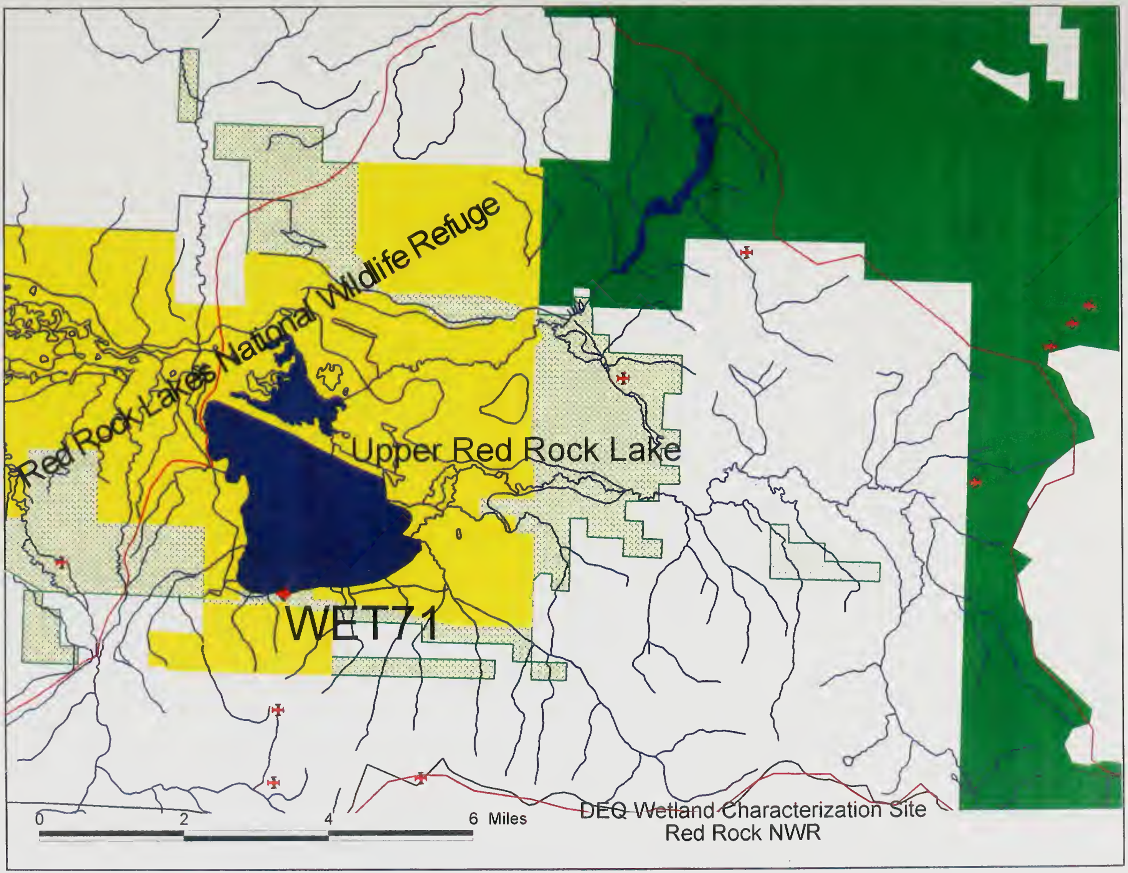


8.00
6.00
4.00
2.00
0.00
Inches Precipitation
Monthly Average, Maximum and Minimum Precipitation
Fortine
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec



TURTLE LAKE - WET70
▨ Total recoverable concentration in water
☐ Detection limit
Concentrations in Milligrams per liter
0.020
0.016
0.012
0.008
0.004
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
25.00
20.00
15.00
10.00
5.00
0.00
TURTLE LAKE - WET70
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn


Red Rock Lakes National Wildlife Refuge
Upper Red Rock Lake
WET71
0
2
4
6 Miles
DEQ Wetland Characterization Site
Red Rock NWR

Wetland: UPPER RED ROCK LAKE	Site Code: WET71
7.5 Minute Quad: UPPER RED ROCK	Lat: 44 35 35 Long: 111 43 40

Mean Annual Precipitation in Inches:	25.00
Mean Annual Potential Evaporation (Penman) in Inches:	30.00
'Net Precipitation' in Inches:	-5.00

Site has a mapped surface inlet.

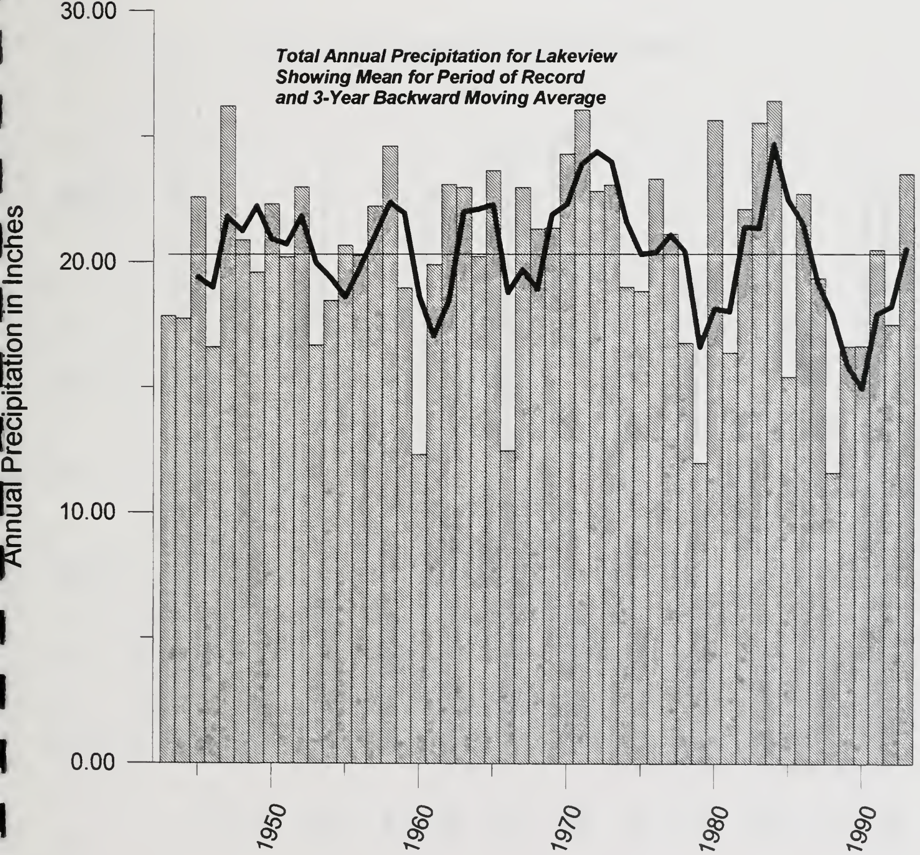
Site has a mapped surface outlet.

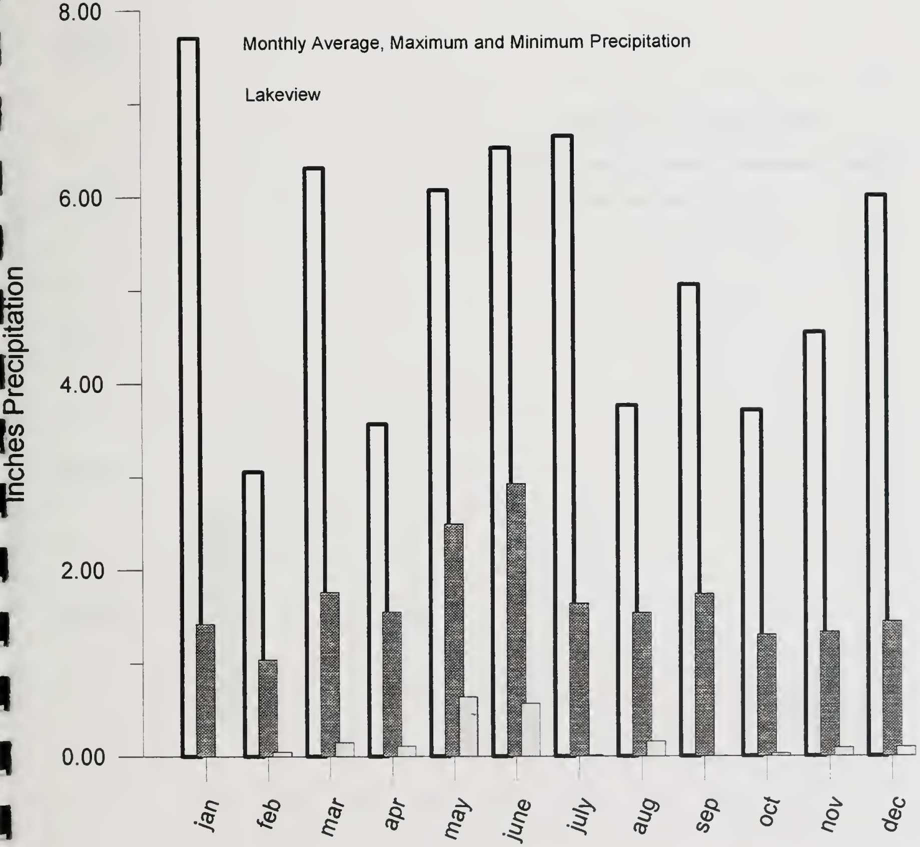
Site is artificially impounded.

Site does not have known significant water imports.

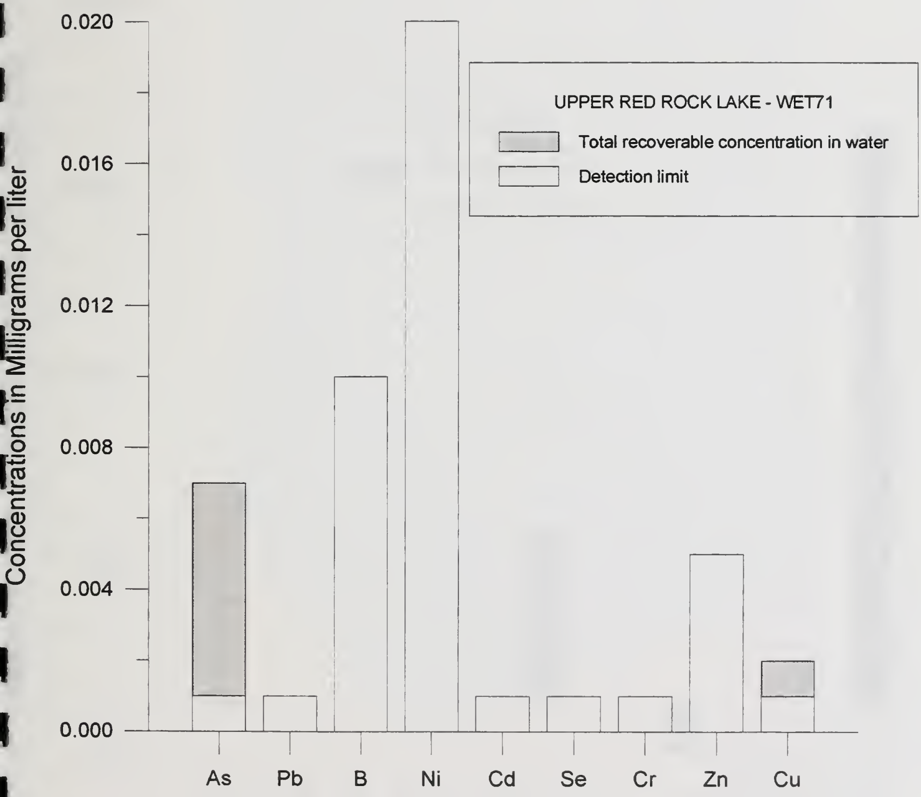
Mapped area of wetland:	2905 acres
Area of contributing drainage basin:	81750 acres
Mapped elevation of wetland surface:	6610 ft
Maximum elevation within drainage basin:	10203 ft
Net relief of contributing basin:	3593 ft

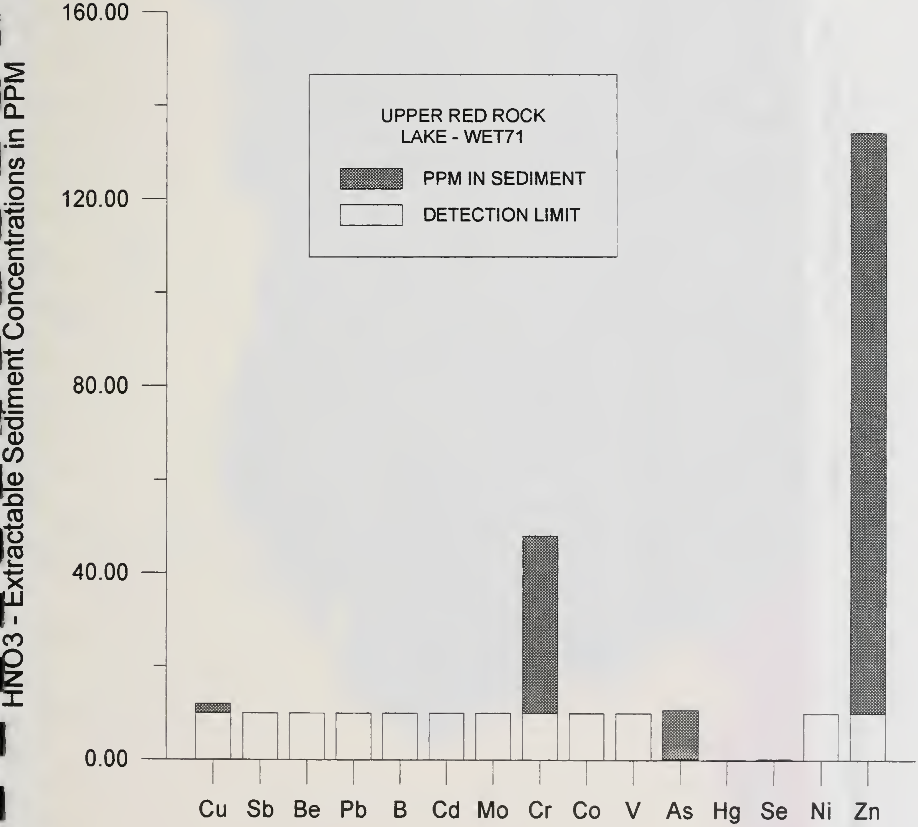
COE Hydrogeomorphic class:	FRINGE
Primary surficial geologic unit	110CNZC
Primary bedrock geologic unit	110CNZC

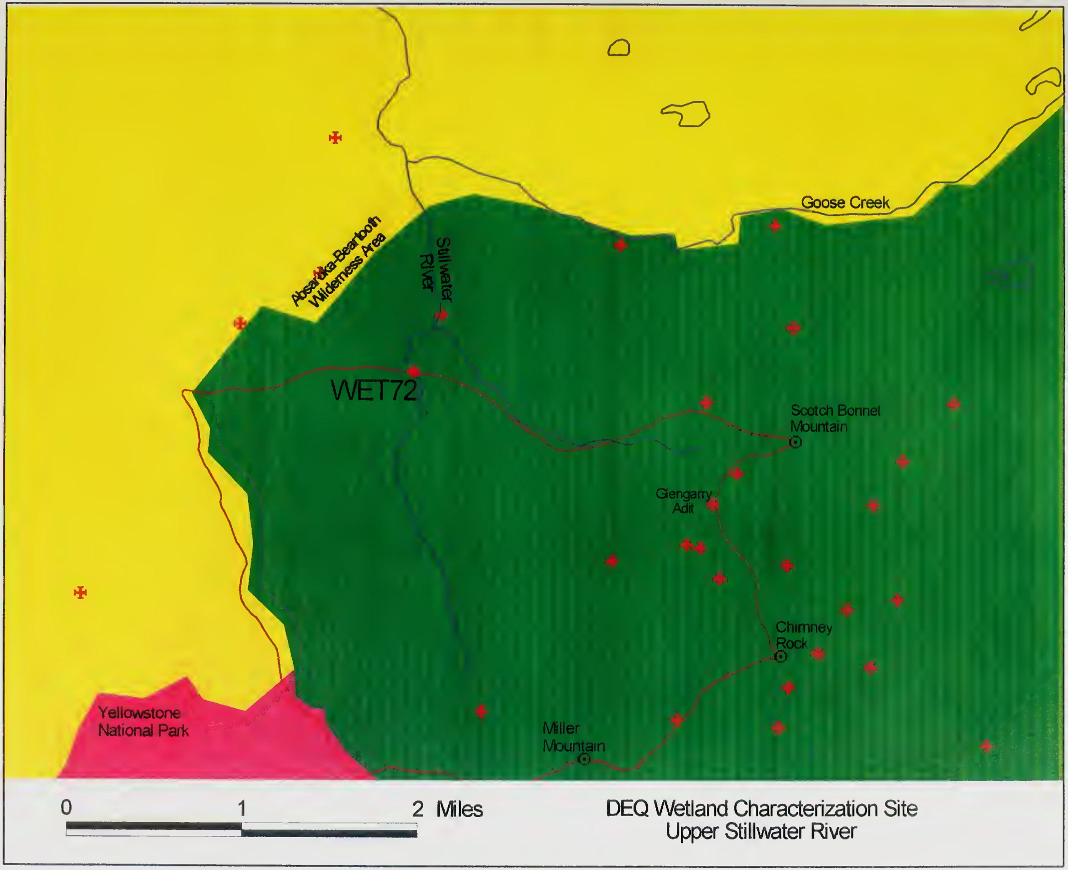

Total Annual Precipitation for Lakeview
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
30.00
20.00
10.00
0.00
1950
1960
1970
1980
1990



Monthly Average, Maximum and Minimum Precipitation
Lakeview
Inches Precipitation
8.00
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


UPPER RED ROCK LAKE - WET71
Total recoverable concentration in water
Detection limit
Concentrations in Milligrams per liter
0.020
0.016
0.012
0.008
0.004
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
160.00
120.00
80.00
40.00
0.00
UPPER RED ROCK
LAKE - WET71
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Site
Upper Stillwater River

Wetland: UPPER STILLWATER RIVER WETLAND		Site Code: WET72	
7.5 Minute Quad: COOKE CITY		Lat:	45 4 43
		Long:	109 59 38

Mean Annual Precipitation in Inches:	70.00
Mean Annual Potential Evaporation (Penman) in Inches:	26.00
'Net Precipitation' in Inches:	44.00

Site has a mapped surface inlet.

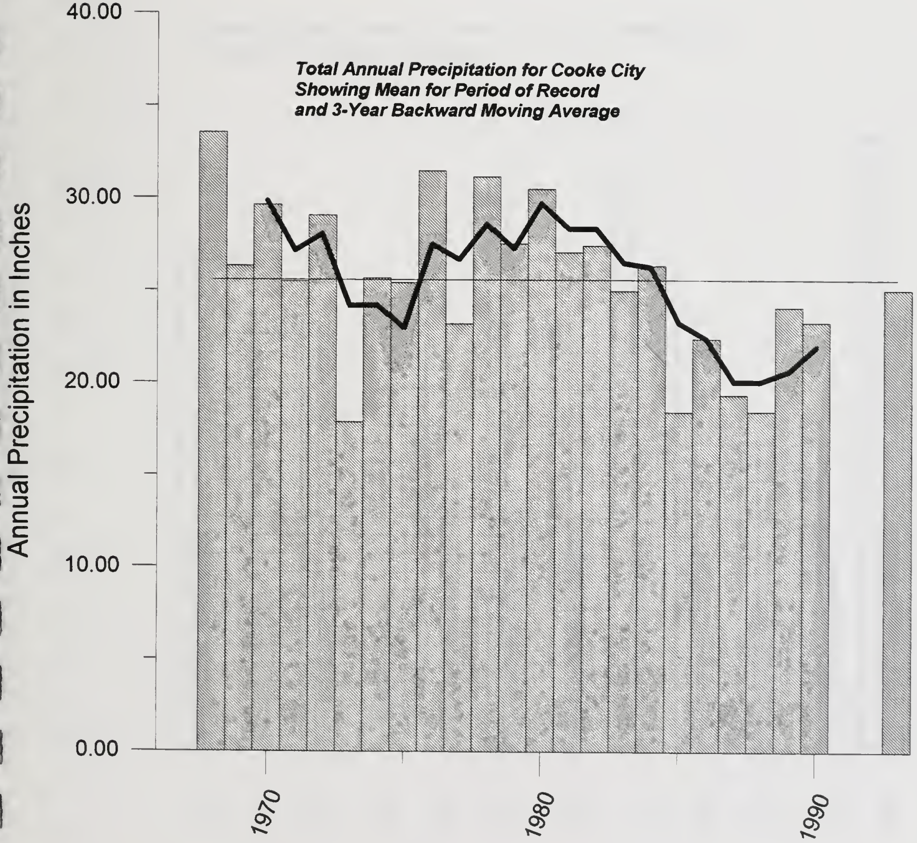
Site has a mapped surface outlet.

Site is not known to be artificially impounded.

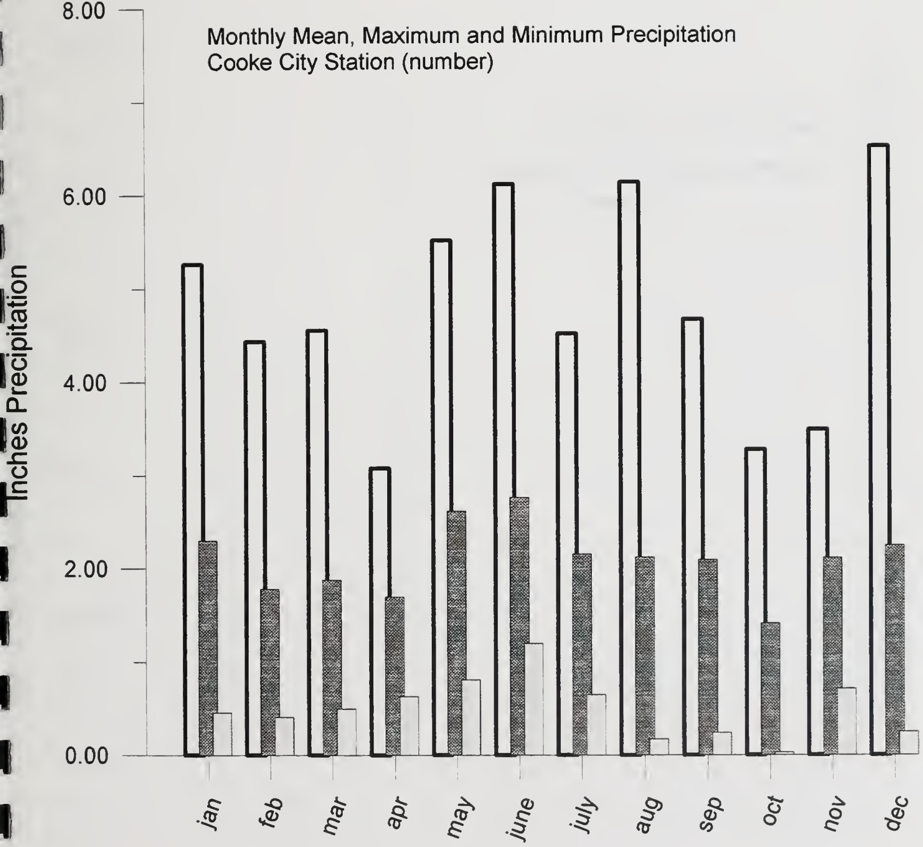
Site does not have known significant water imports.

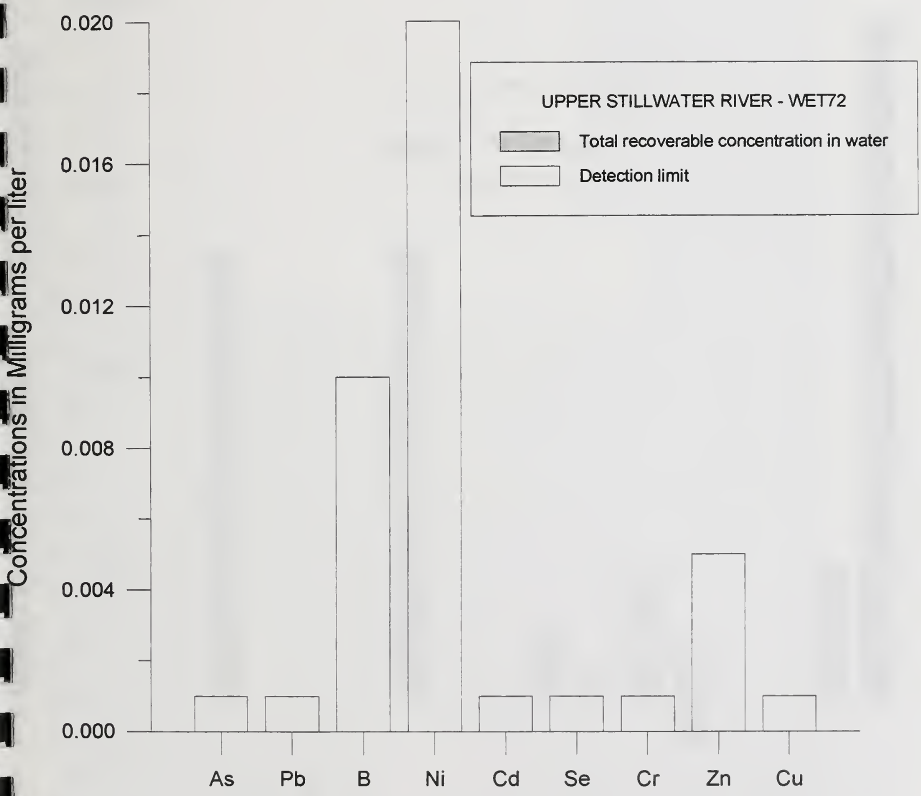
Mapped area of wetland:	300 acres
Area of contributing drainage basin:	3630 acres
Mapped elevation of wetland surface:	8470 ft
Maximum elevation within drainage basin:	10500 ft
Net relief of contributing basin:	2030 ft

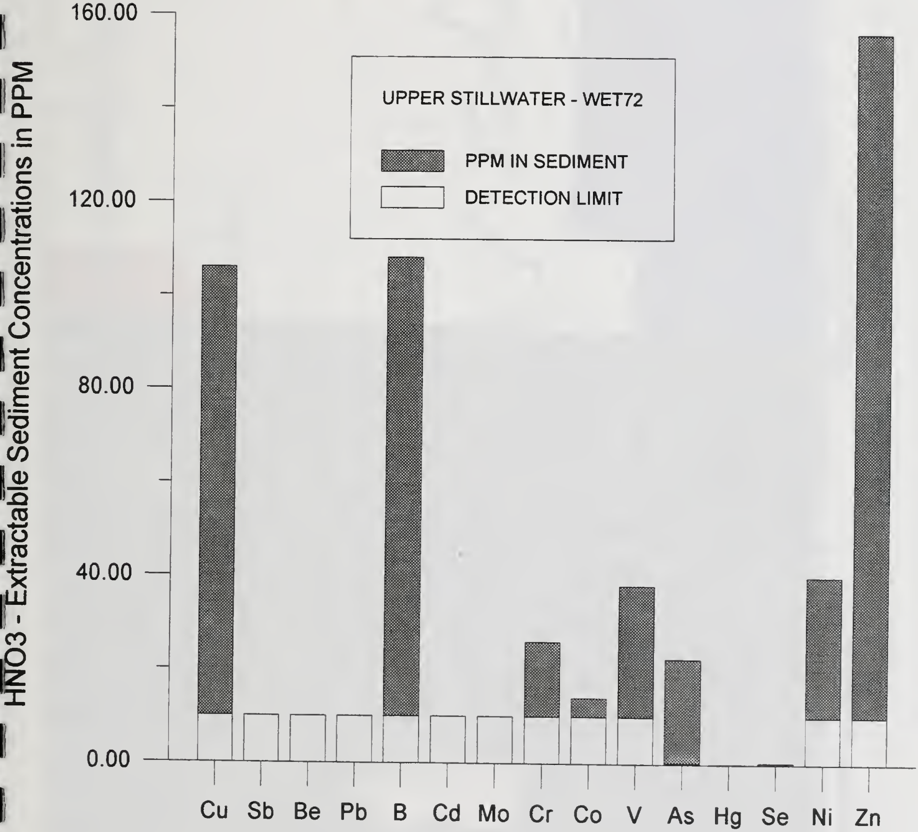
COE Hydrogeomorphic class:	RIVERINE
Primary surficial geologic unit	111ALVM
Primary bedrock geologic unit	120VLCC

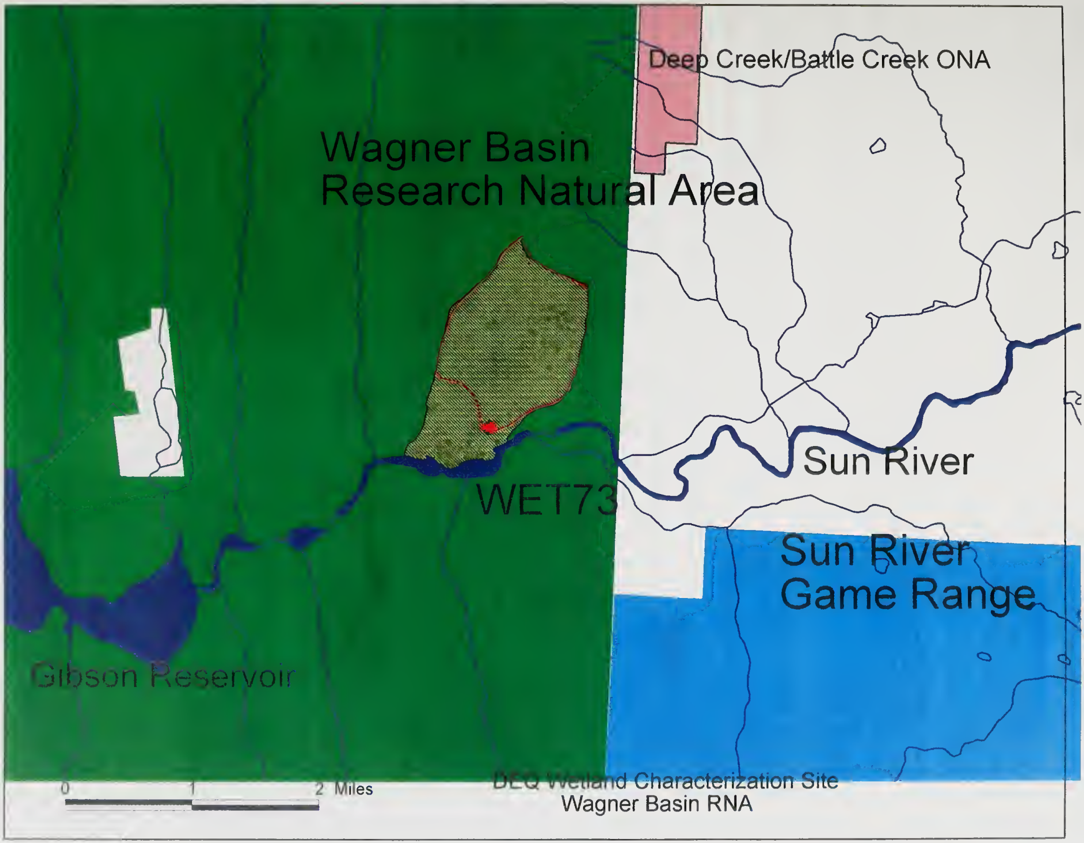


Total Annual Precipitation for Cooke City
Showing Mean for Period of Record
and 3-Year Backward Moving Average


Monthly Mean, Maximum and Minimum Precipitation
Cooke City Station (number)
Inches Precipitation
8.00
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


Concentrations in Milligrams per liter
0.020
0.016
0.012
0.008
0.004
0.000
UPPER STILLWATER RIVER - WET72
Total recoverable concentration in water
Detection limit
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
160.00
120.00
80.00
40.00
0.00
UPPER STILLWATER - WET72
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Site
Wagner Basin RNA

Wetland: WAGNER BASIN RNA	Site Code: WET73
7.5 Minute Quad: SAWTOOTH RIDGE	Lat: 47 37 20 Long: 112 42 45

Mean Annual Precipitation in Inches:	25.00
Mean Annual Potential Evaporation (Penman) in Inches:	31.00
‘Net Precipitation’ in Inches:	-6.00

Site has a mapped surface inlet.

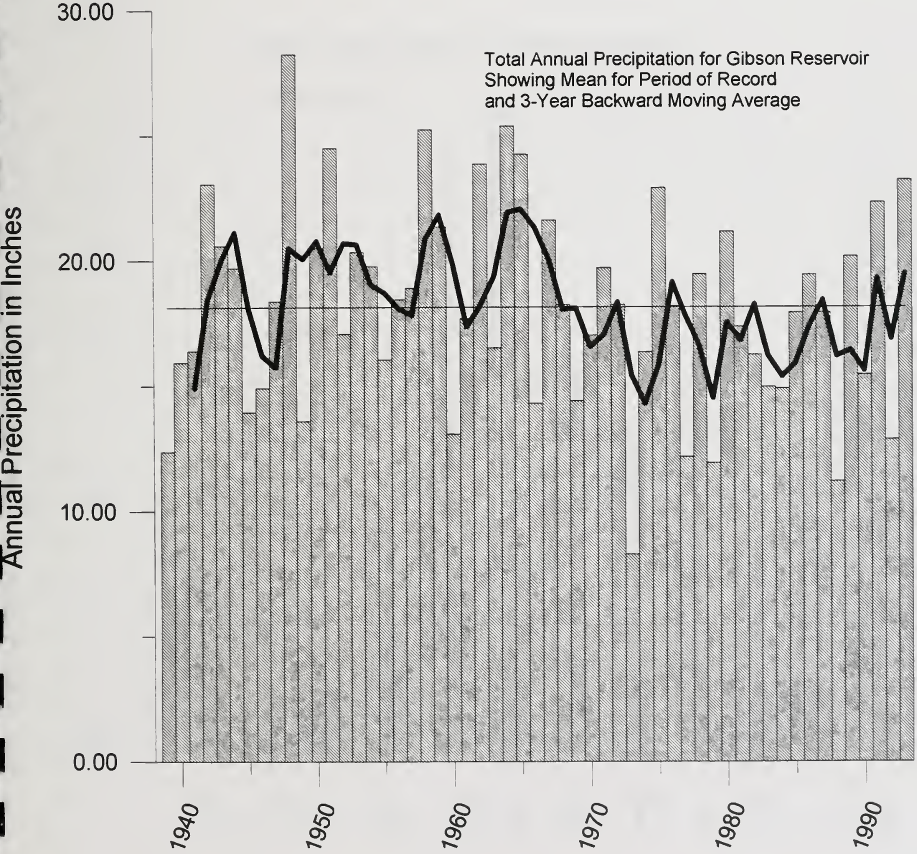
Site has a mapped surface outlet.

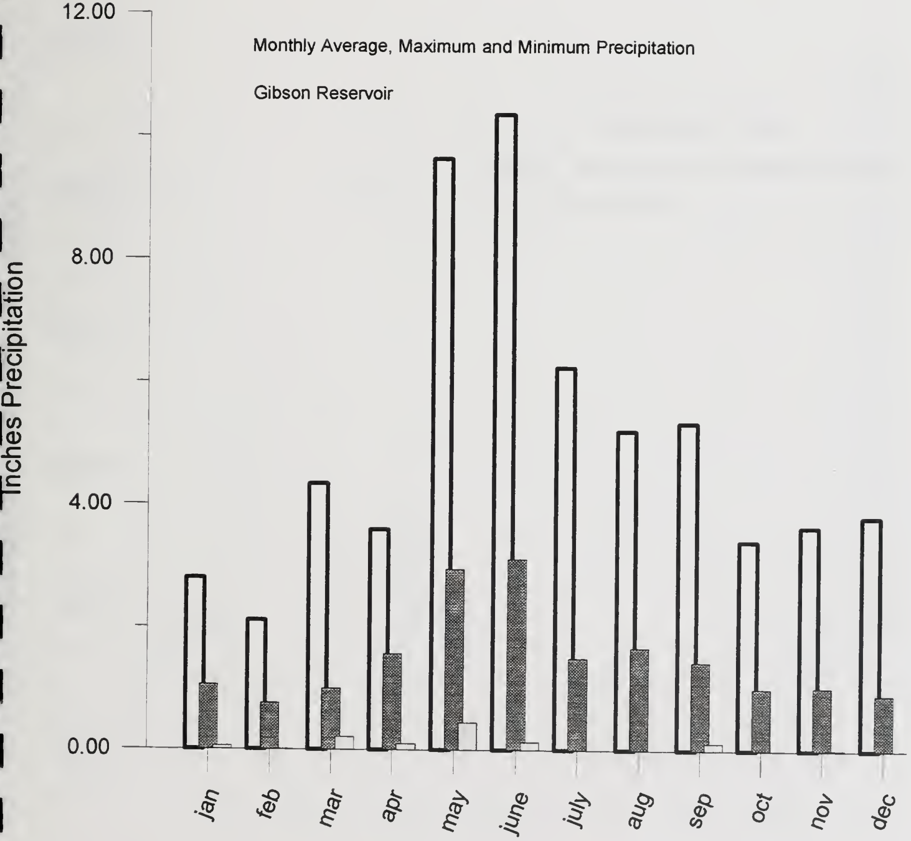
Site is not known to be artificially impounded.

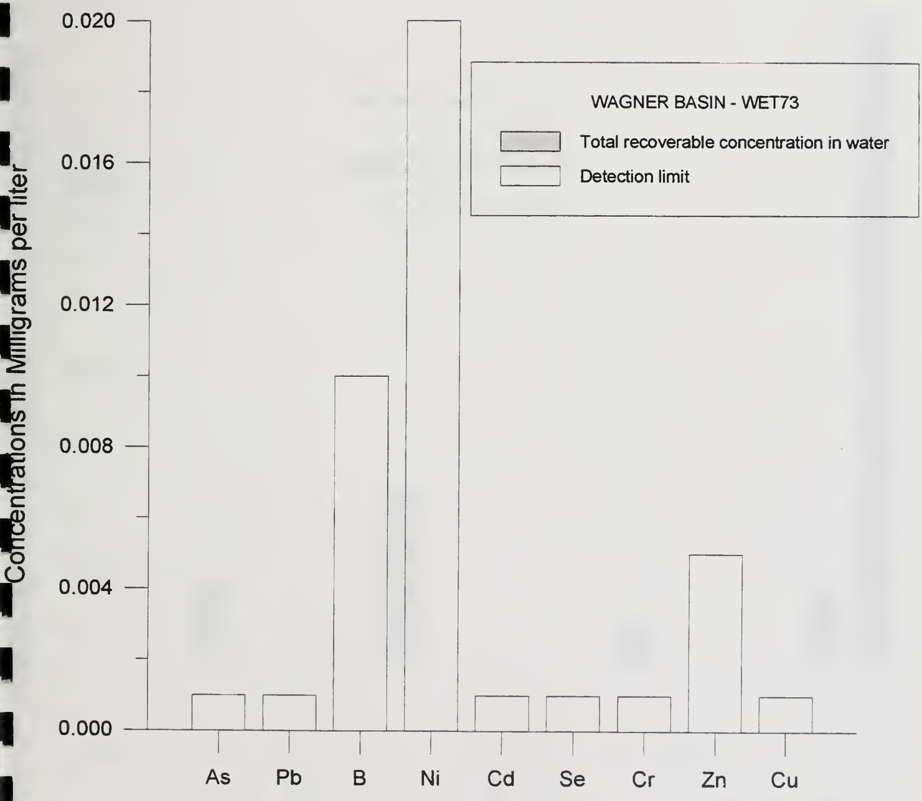
Site does not have known significant water imports.

Mapped area of wetland:	10 acres
Area of contributing drainage basin:	725 acres
Mapped elevation of wetland surface:	4550 ft
Maximum elevation within drainage basin:	7668 ft
Net relief of contributing basin:	3118 ft

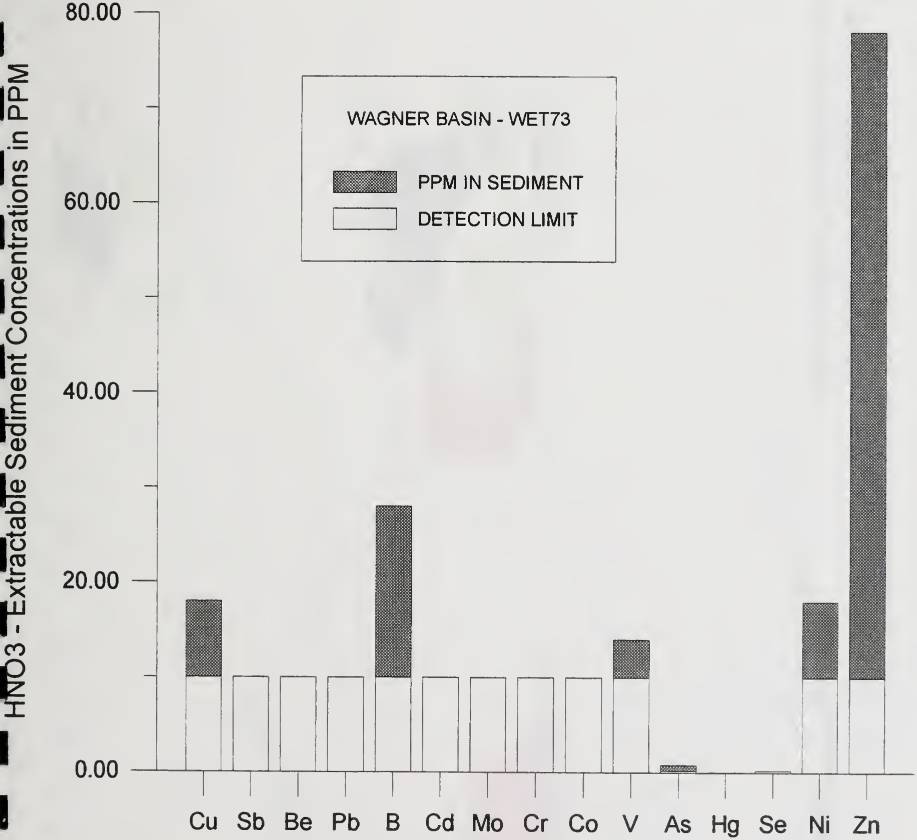
COE Hydrogeomorphic class:	RIVERINE
Primary surficial geologic unit	
Primary bedrock geologic unit	300PLZC

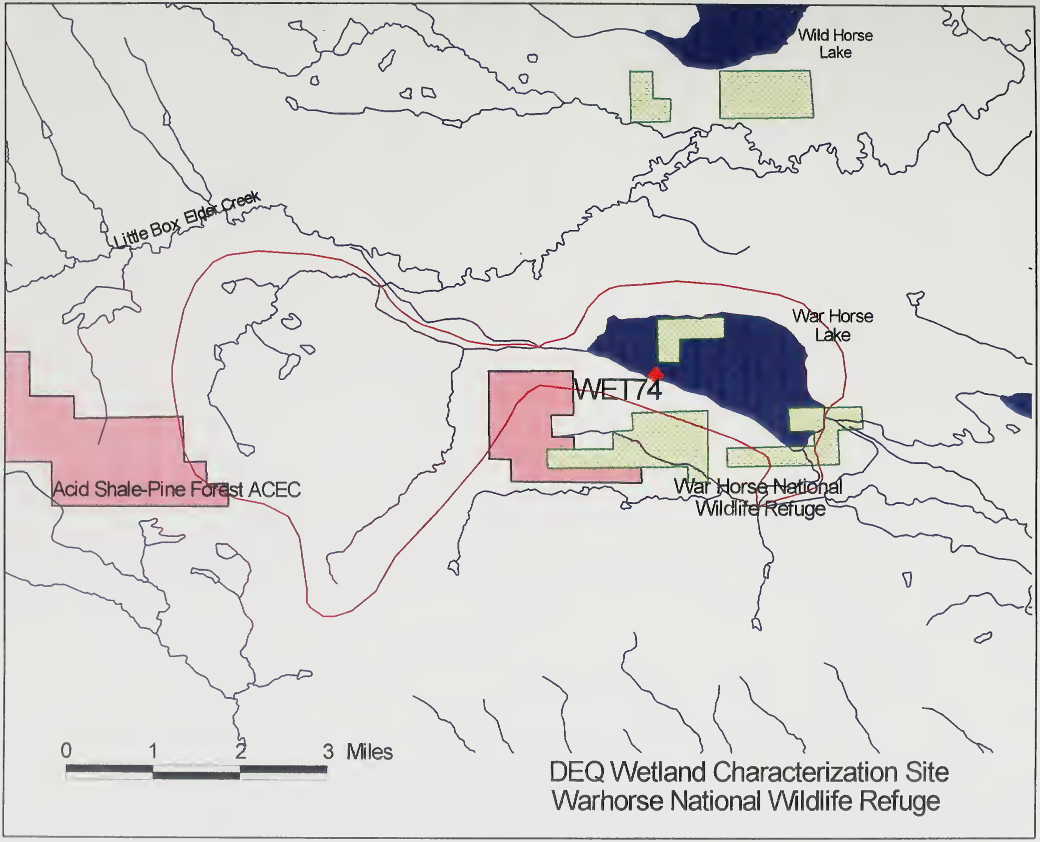

Total Annual Precipitation for Gibson Reservoir
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
30.00
20.00
10.00
0.00
1940
1950
1960
1970
1980
1990


Monthly Average, Maximum and Minimum Precipitation
Gibson Reservoir
Inches Precipitation
12.00
8.00
4.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec



Concentrations in Milligrams per liter
0.020
0.016
0.012
0.008
0.004
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu
WAGNER BASIN - WET73
▨ Total recoverable concentration in water
☐ Detection limit


HNO3 - Extractable Sediment Concentrations in PPM
80.00
60.00
40.00
20.00
0.00
WAGNER BASIN - WET73
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Site
Warhorse National Wildlife Refuge

Wetland: WARHORSE NWR	Site Code: WET74
7.5 Minute Quad: TIEGEN	Lat: 47 7 5 Long: 108 34 5

Mean Annual Precipitation in Inches:	13.00
Mean Annual Potential Evaporation (Penman) in Inches:	41.00
'Net Precipitation' in Inches:	-28.00

Site has a mapped surface inlet.

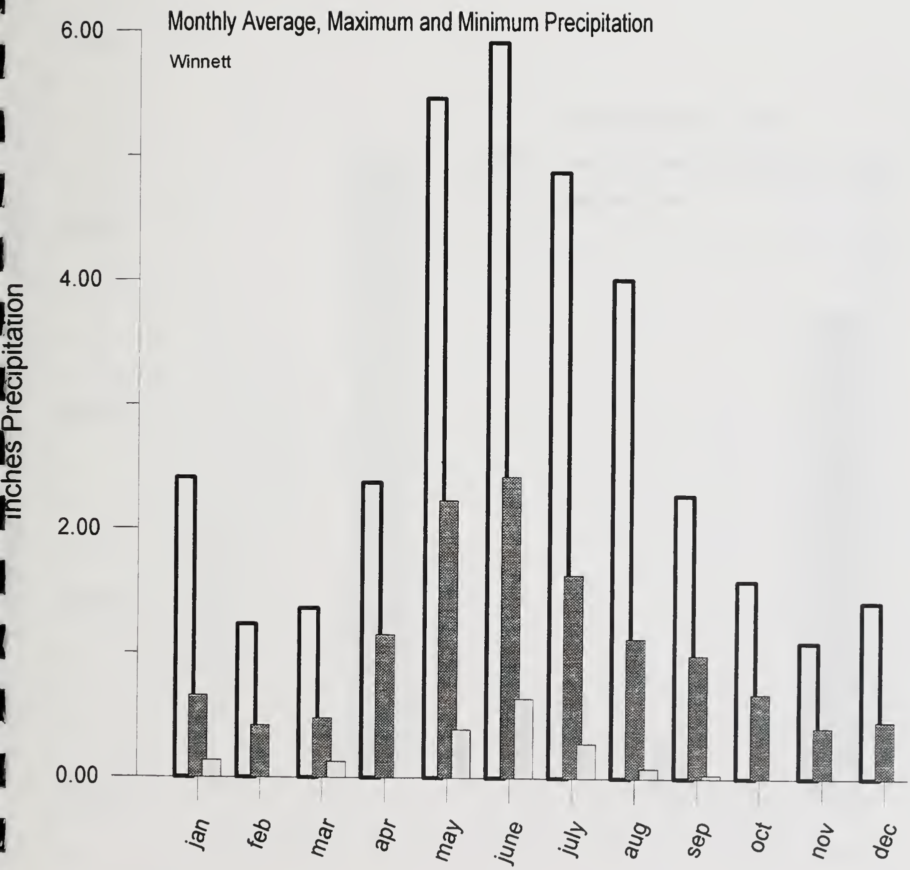
Site has a mapped surface outlet.

Site is artificially impounded.

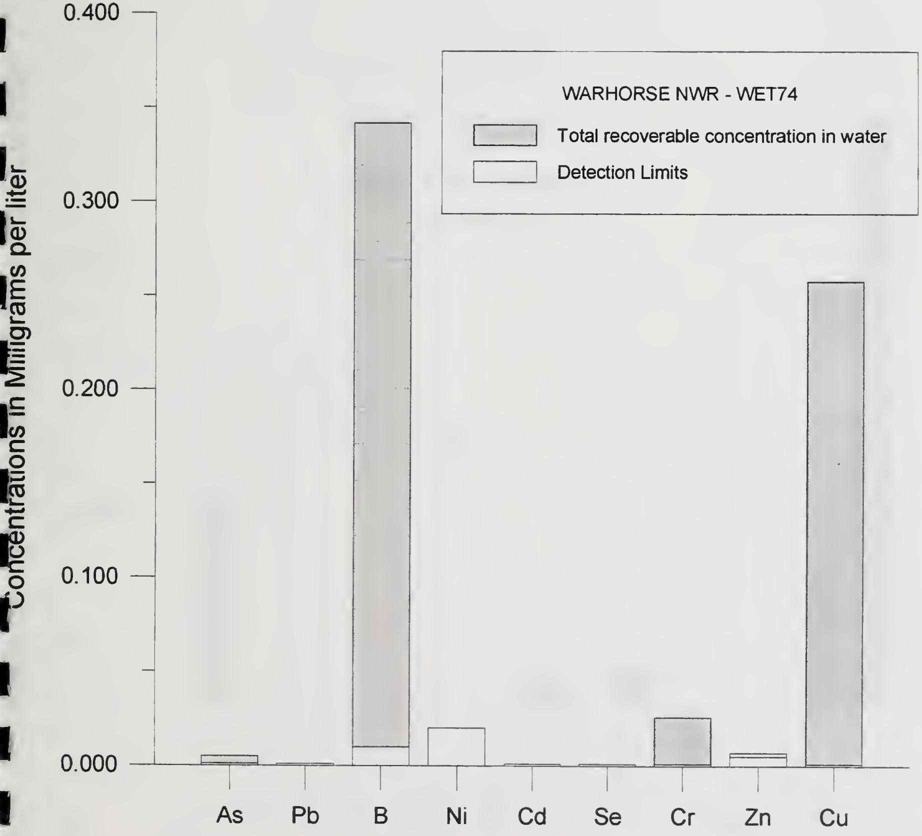
Site has significant water imports.

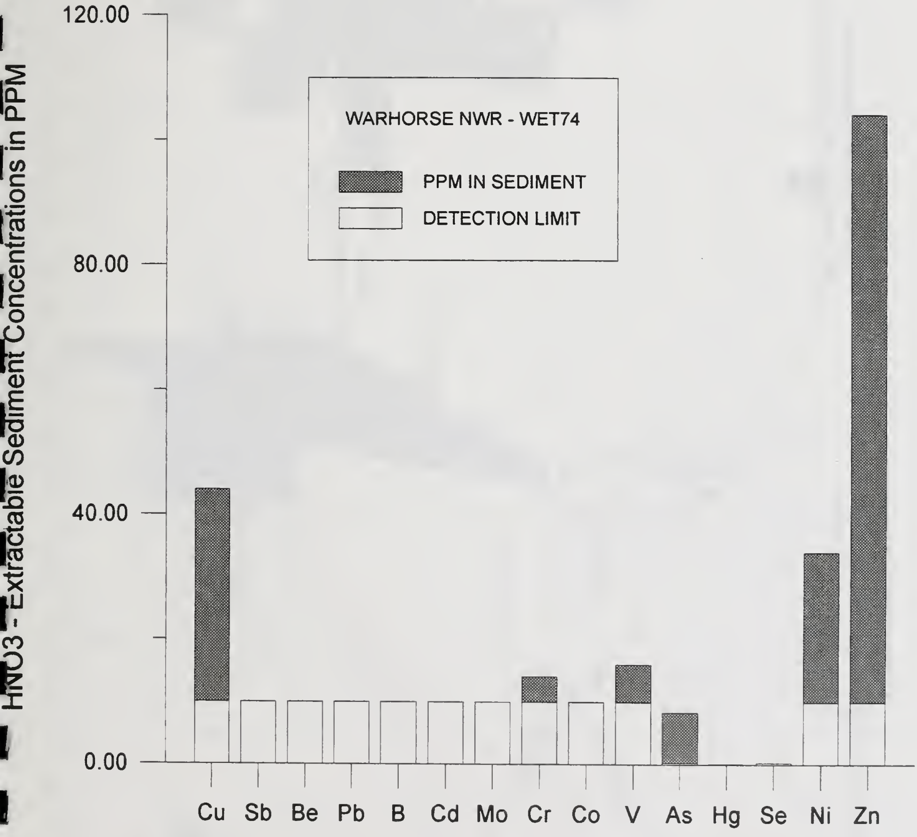
Mapped area of wetland:	1445 acres
Area of contributing drainage basin:	9890 acres
Mapped elevation of wetland surface:	3135 ft
Maximum elevation within drainage basin:	3591 ft
Net relief of contributing basin:	456 ft

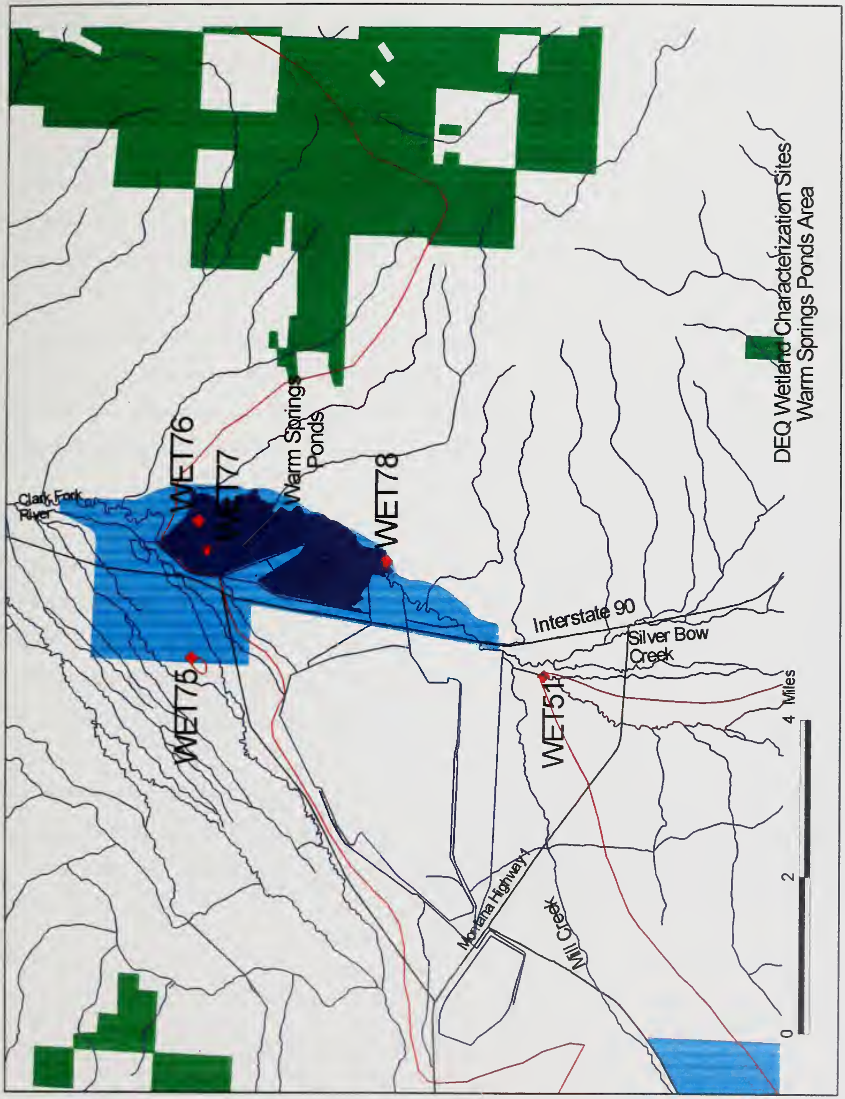
COE Hydrogeomorphic class:	DEPRESSIONAL
Primary surficial geologic unit	110"LAC"
Primary bedrock geologic unit	211CLRD



Monthly Average, Maximum and Minimum Precipitation
Winnett
Inches Precipitation
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


WARHORSE NWR - WET74
Total recoverable concentration in water
Detection Limits
Concentrations in Milligrams per liter
0.400
0.300
0.200
0.100
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
120.00
80.00
40.00
0.00
WARHORSE NWR - WET74
▨ PPM IN SEDIMENT
☐ DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn


DEQ Wetland Characterization Sites
Warm Springs Ponds Area

Wetland: WARM SPRINGS DUCKS UNLIMITED POND	Site Code: WET75
7.5 Minute Quad: WARM SPRINGS	Lat: 46 10 30 Long: 112 48 20

Mean Annual Precipitation in Inches:	13.00
Mean Annual Potential Evaporation (Penman) in Inches:	33.00
'Net Precipitation' in Inches:	-20.00

Site does not have a mapped surface inlet.

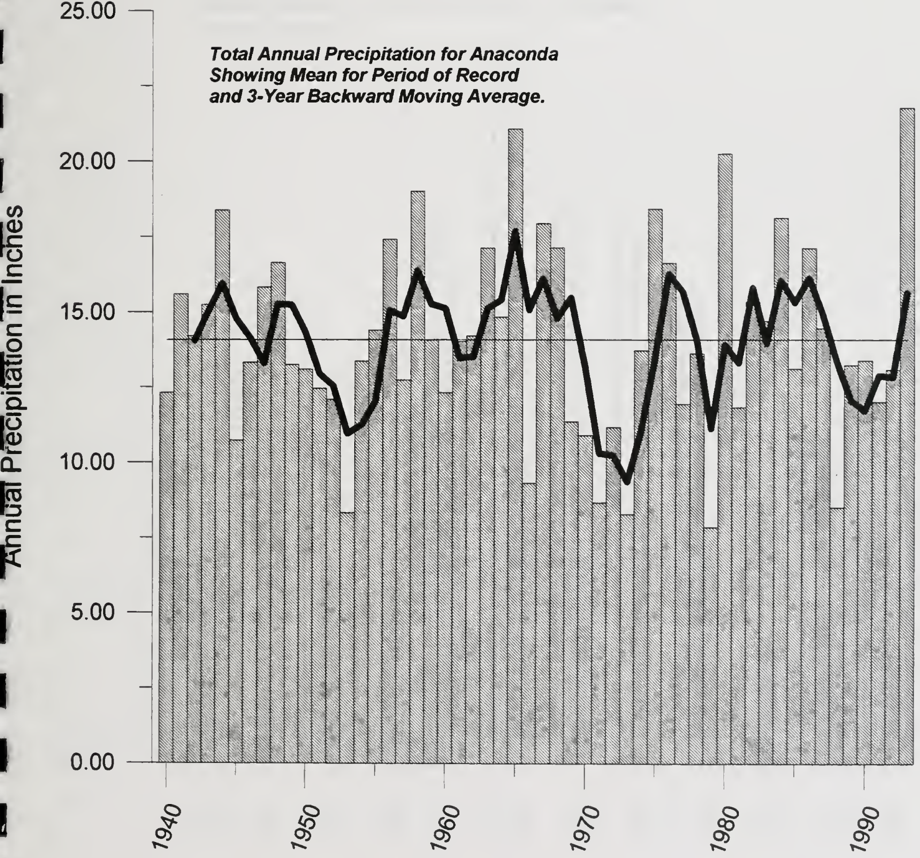
Site does not have a mapped surface outlet.

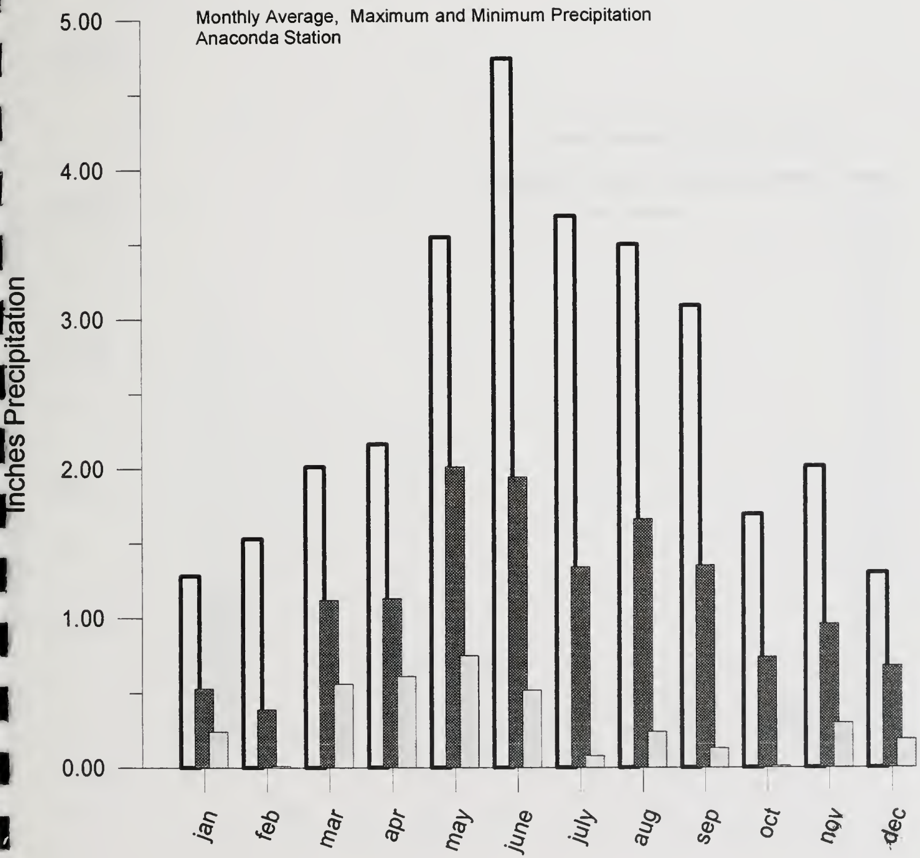
Site is not known to be artificially impounded.

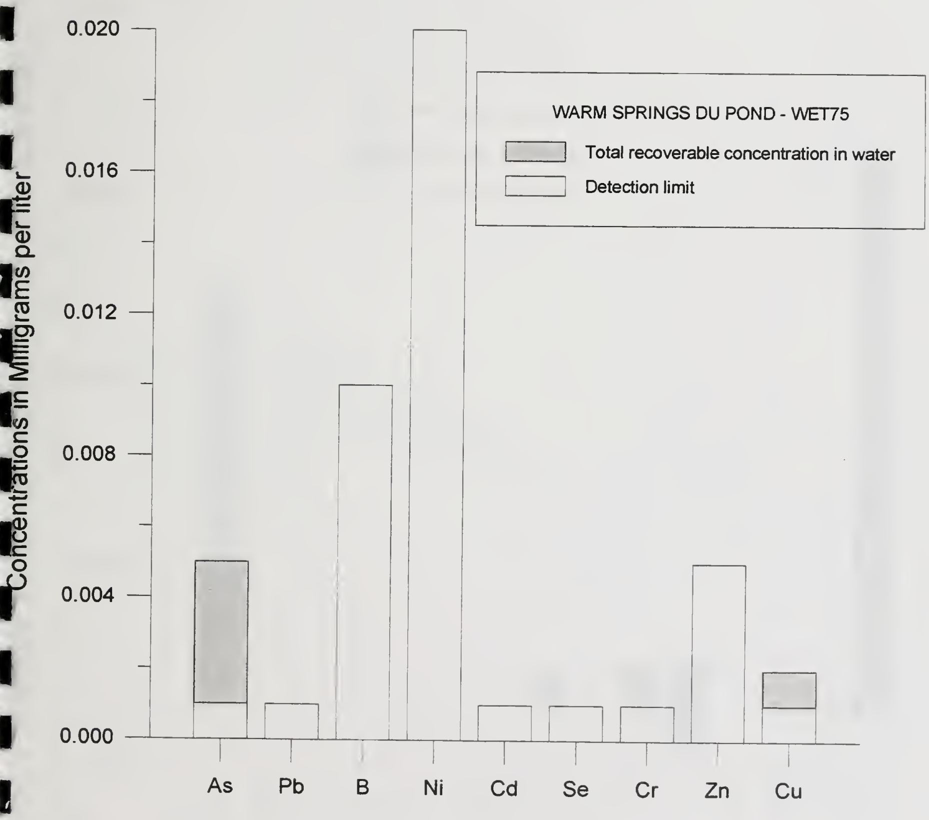
Site does not have known significant water imports.

Mapped area of wetland:	1 acres
Area of contributing drainage basin:	21 acres
Mapped elevation of wetland surface:	4855 ft
Maximum elevation within drainage basin:	4860 ft
Net relief of contributing basin:	5 ft

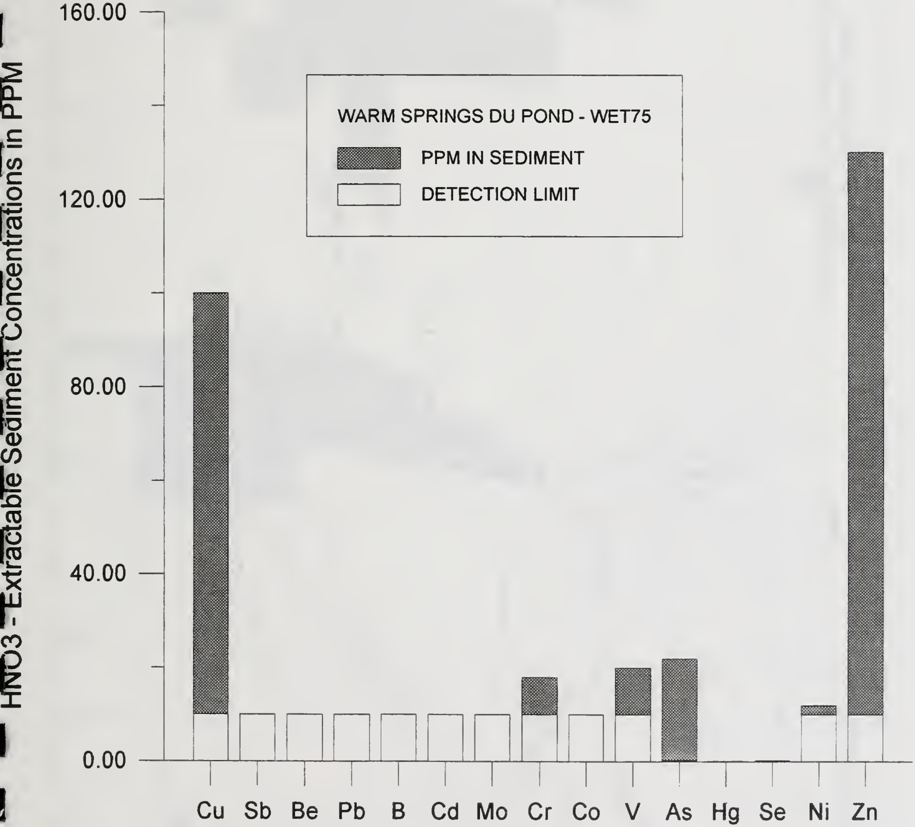
COE Hydrogeomorphic class:	DEPRESSIONAL
Primary surficial geologic unit	110ALVF
Primary bedrock geologic unit	120SDMS


Total Annual Precipitation for Anaconda
Showing Mean for Period of Record
and 3-Year Backward Moving Average.
Annual Precipitation in Inches
25.00
20.00
15.00
10.00
5.00
0.00
1940
1950
1960
1970
1980
1990

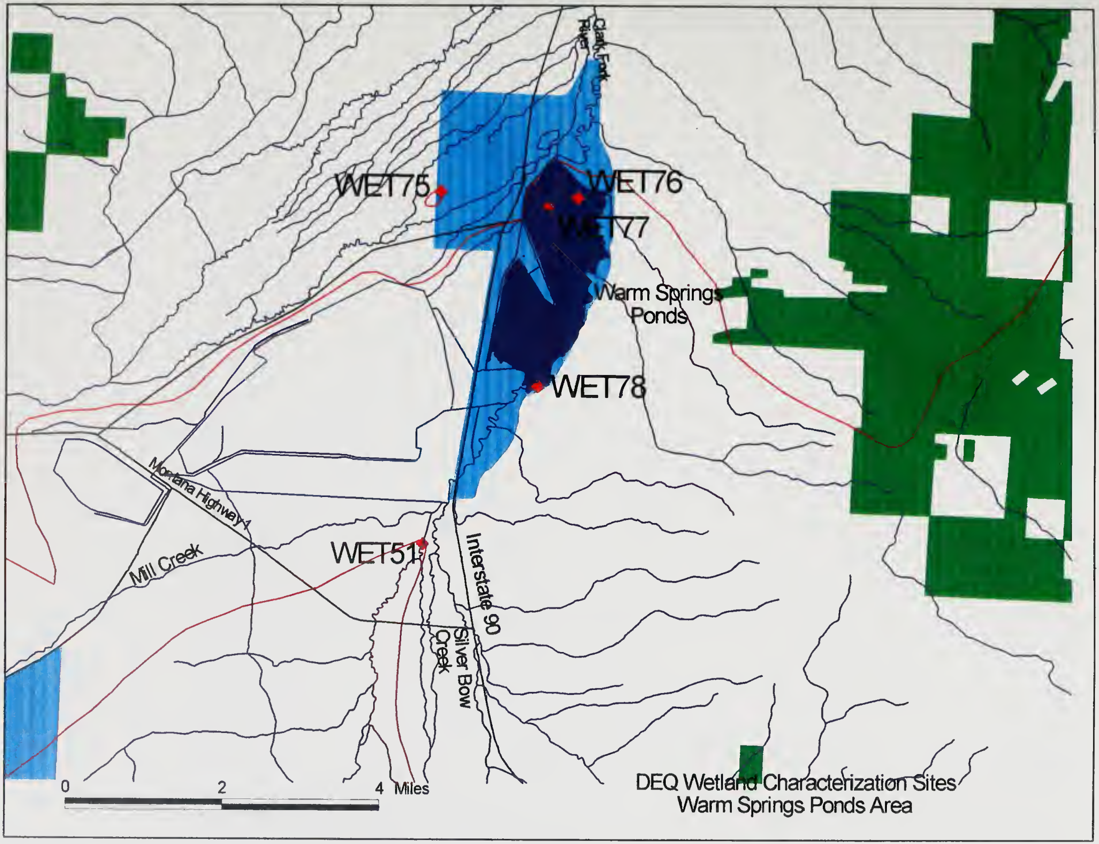

Monthly Average, Maximum and Minimum Precipitation
Anaconda Station
Inches Precipitation
5.00
4.00
3.00
2.00
1.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec



WARM SPRINGS DU POND - WET75
Total recoverable concentration in water
Detection limit
Concentrations in Milligrams per liter
0.020
0.016
0.012
0.008
0.004
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu



HNO3 - Extractable Sediment Concentrations in PPM
160.00
120.00
80.00
40.00
0.00
WARM SPRINGS DU POND - WET75
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn


DEQ Wetland Characterization Sites
Warm Springs Ponds Area

Wetland: WARM SPRINGS POND #1	Site Code: WET76
7.5 Minute Quad: WARM SPRINGS	Lat: 46 10 30 Long: 112 46 10

Mean Annual Precipitation in Inches:	13.00
Mean Annual Potential Evaporation (Penman) in Inches:	33.00
'Net Precipitation' in Inches:	-20.00

Site has a mapped surface inlet.

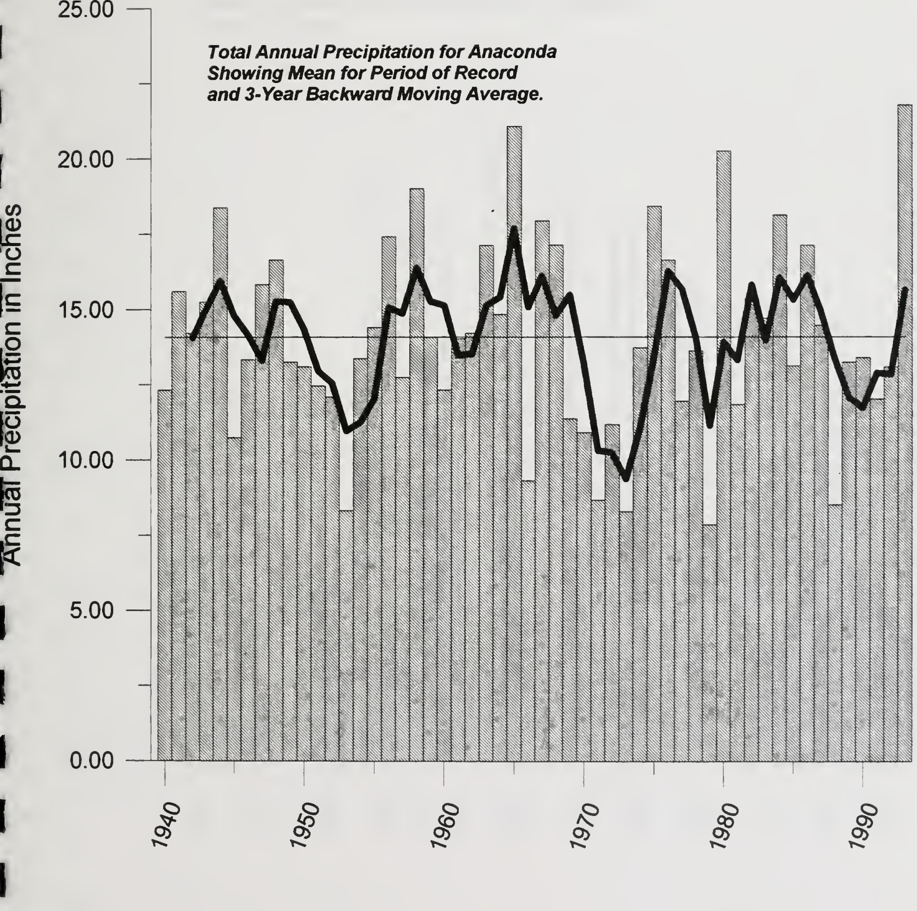
Site has a mapped surface outlet.

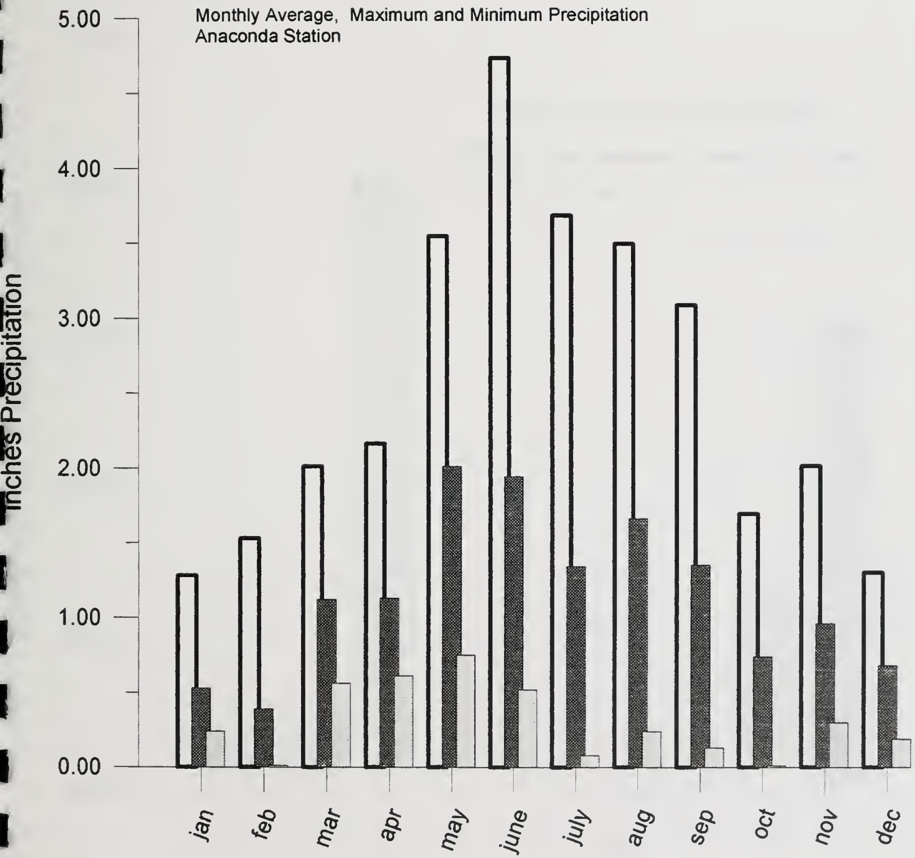
Site is artificially impounded.

Site does not have known significant water imports.

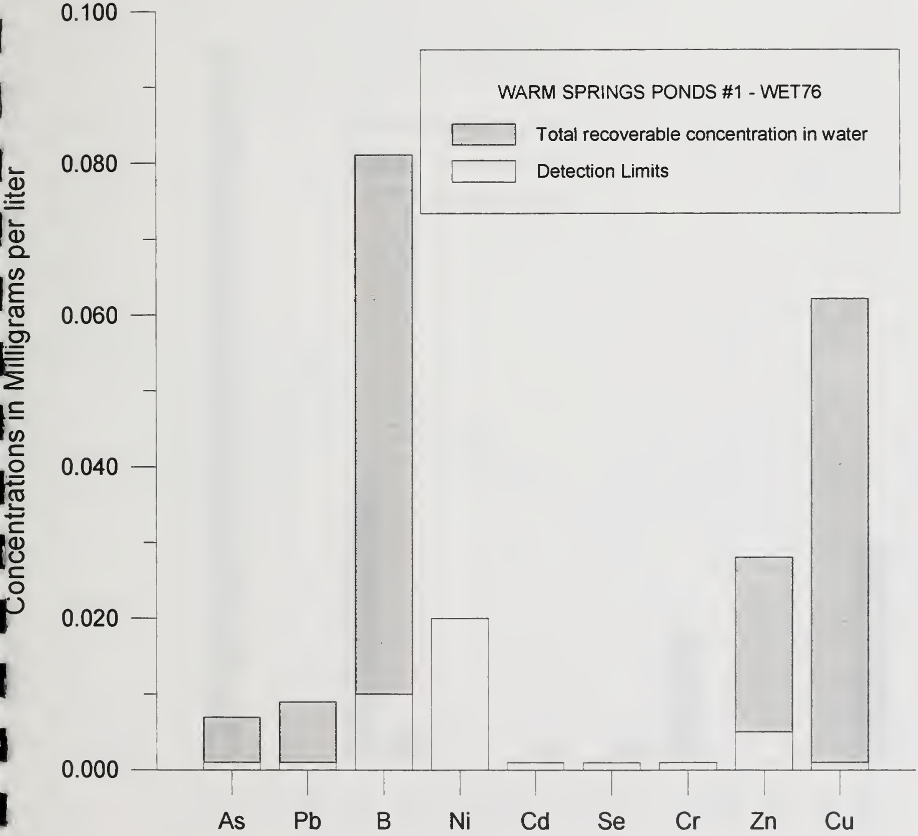
Mapped area of wetland:	290 acres
Area of contributing drainage basin:	287800 acres
Mapped elevation of wetland surface:	4860 ft
Maximum elevation within drainage basin:	8237 ft
Net relief of contributing basin:	3377 ft

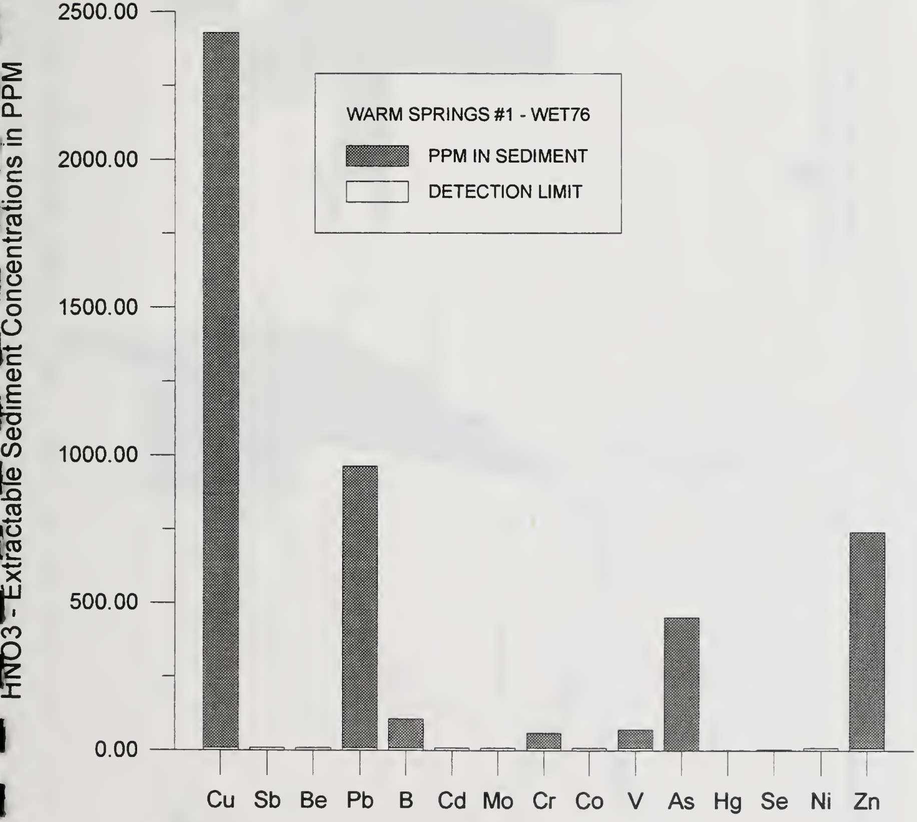
COE Hydrogeomorphic class:	DEPRESSIONAL
Primary surficial geologic unit	111MTLG
Primary bedrock geologic unit	120SDMS

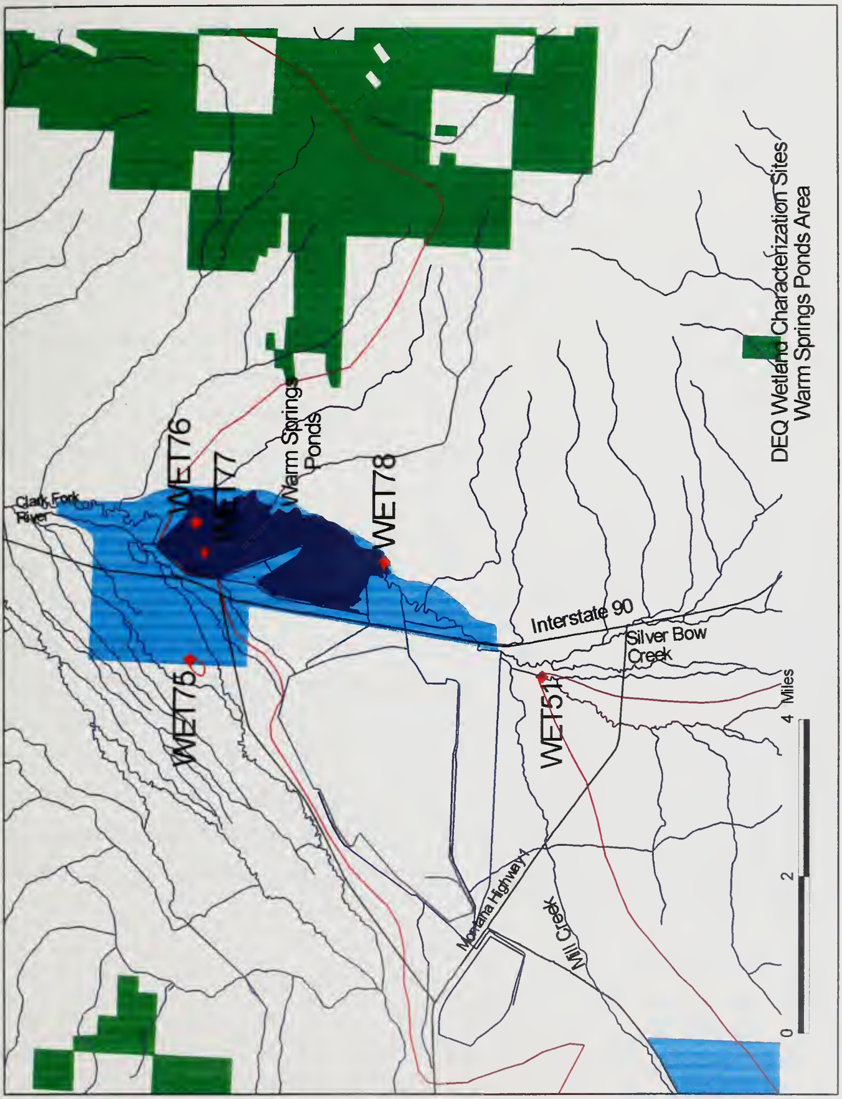

Total Annual Precipitation for Anaconda
Showing Mean for Period of Record
and 3-Year Backward Moving Average.
Annual Precipitation in Inches
25.00
20.00
15.00
10.00
5.00
0.00
1940
1950
1960
1970
1980
1990



Monthly Average, Maximum and Minimum Precipitation
Anaconda Station


Concentrations in Milligrams per liter
0.100
0.080
0.060
0.040
0.020
0.000
WARM SPRINGS PONDS #1 - WET76
Total recoverable concentration in water
Detection Limits
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
2500.00
2000.00
1500.00
1000.00
500.00
0.00
WARM SPRINGS #1 - WET76
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn


DEQ Wetland Characterization Sites
Warm Springs Ponds Area
Clark Fork River
WET76
WET77
Warm Springs Ponds
WET78
WET75
Interstate 90
Silver Bow Creek
WET51
Montana Highway 1
Mill Creek
0
2
4
Miles

Wetland: WARM SPRINGS POND #2 NEAR OUTLET Site Code: WET77

7.5 Minute Quad: WARM SPRINGS

Lat: 46 10 25
Long: 112 46 35

Mean Annual Precipitation in Inches: 13.00

Mean Annual Potential Evaporation (Penman) in Inches: 33.00

'Net Precipitation' in Inches: -20.00

Site has a mapped surface inlet.

Site has a mapped surface outlet.

Site is artificially impounded.

Site does not have known significant water imports.

Mapped area of wetland: 525 acres

Area of contributing drainage basin: 287800 acres

Mapped elevation of wetland surface: 4860 ft

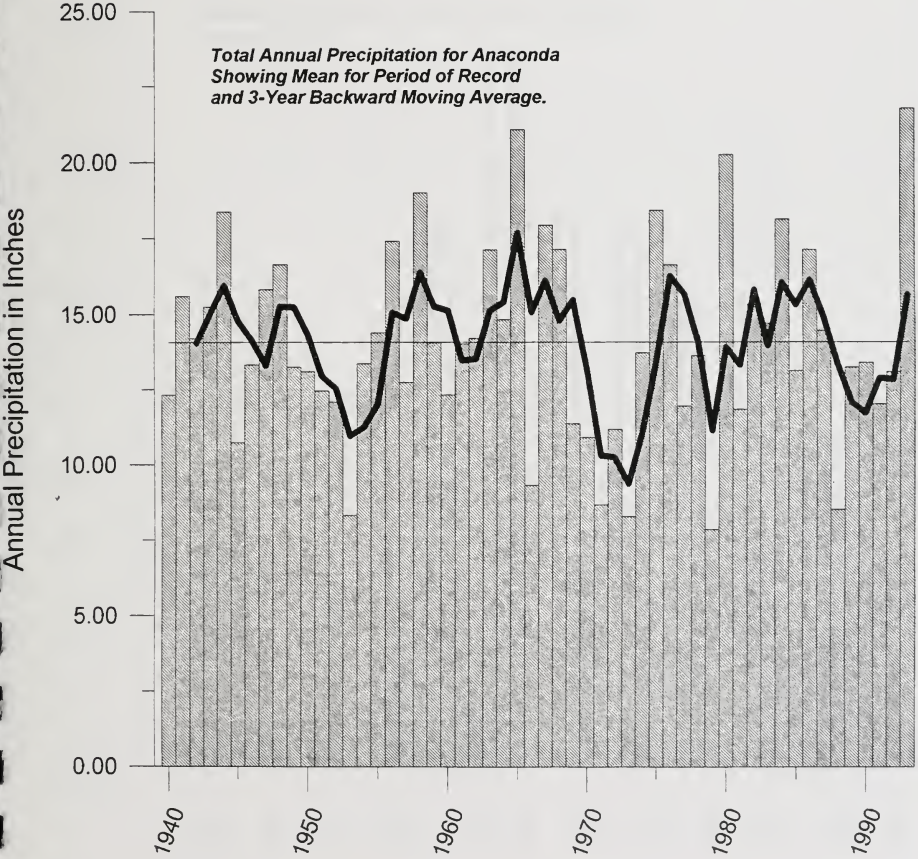
Maximum elevation within drainage basin: 8237 ft

Net relief of contributing basin: 3377 ft

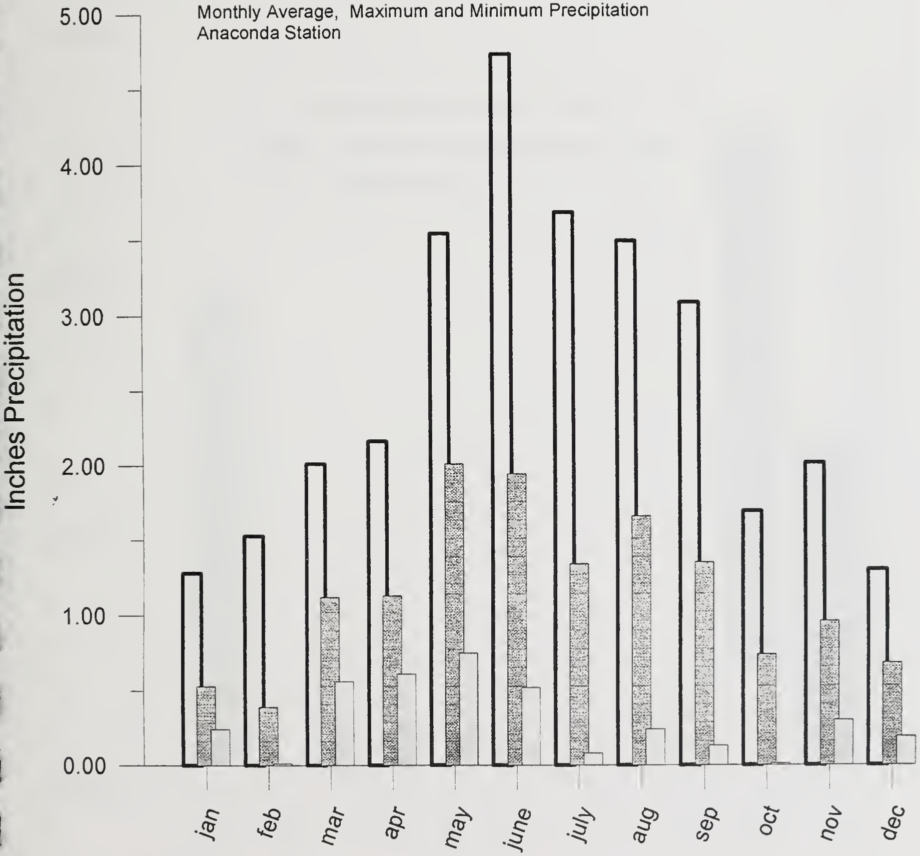
COE Hydrogeomorphic class: DEPRESSIONAL

Primary surficial geologic unit 111MTLG

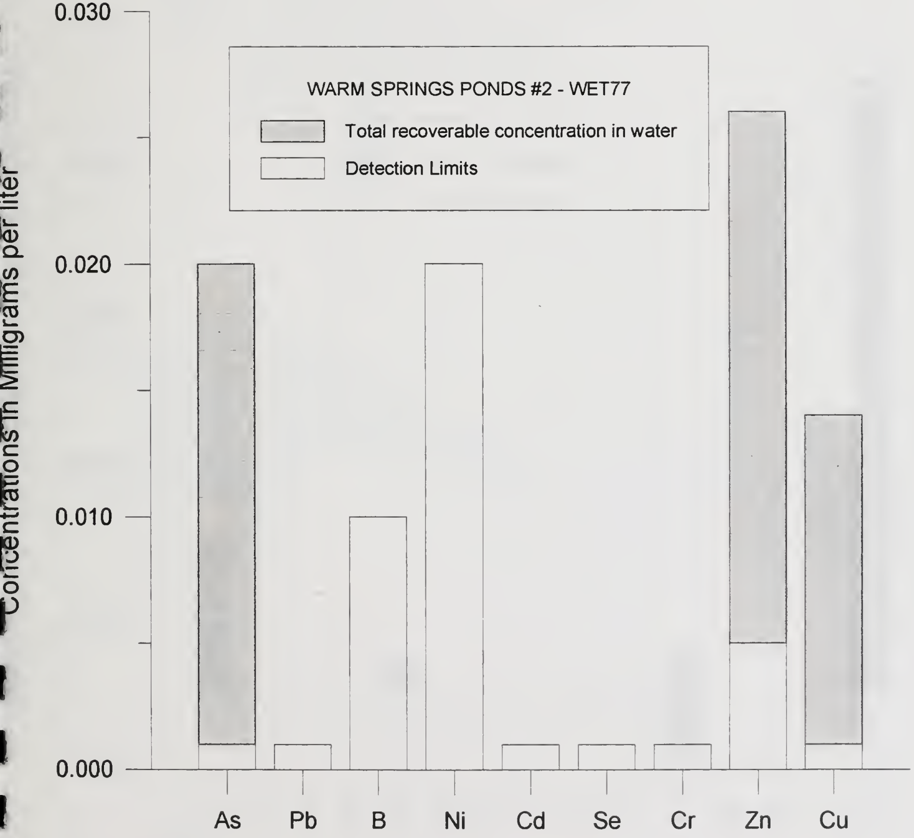
Primary bedrock geologic unit 120SDMS

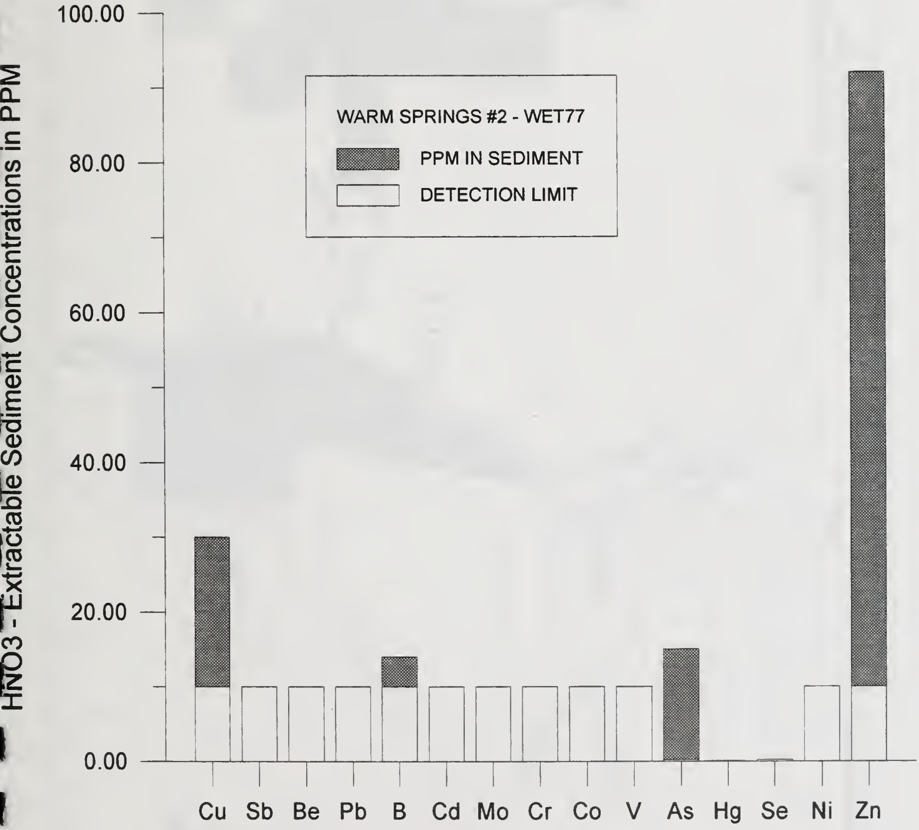


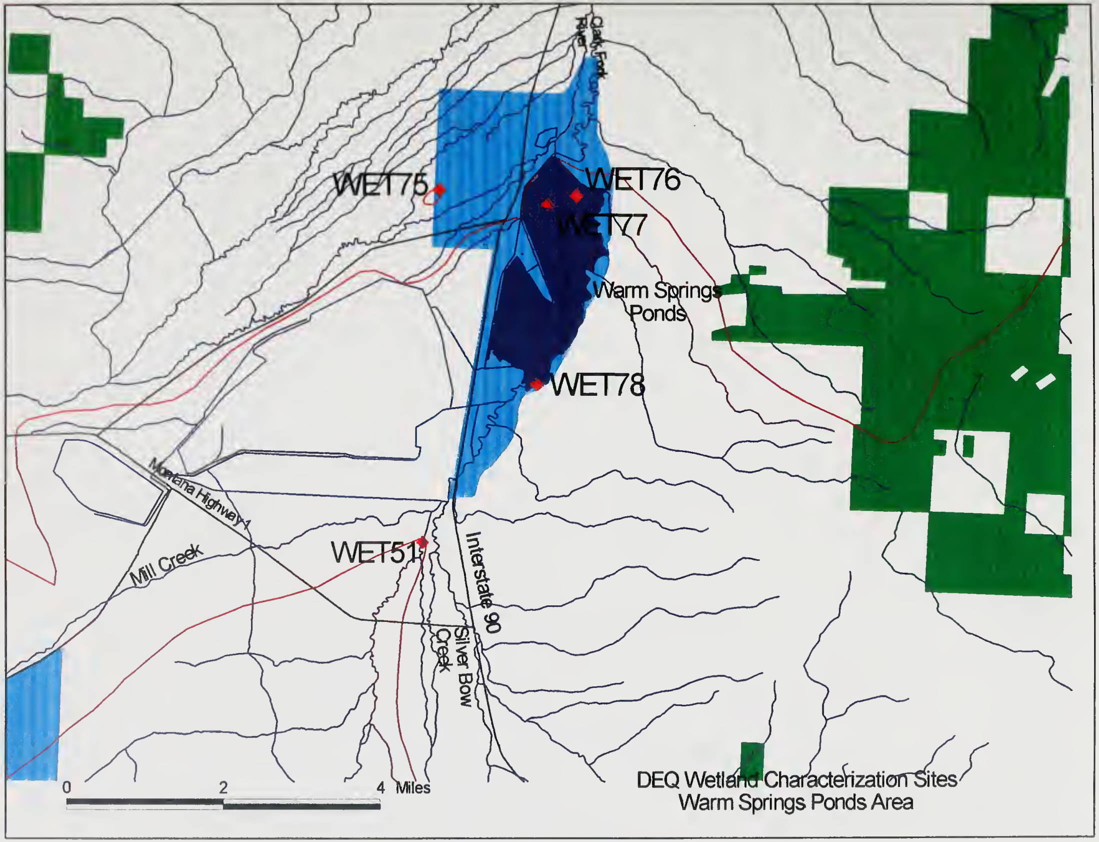
Total Annual Precipitation for Anaconda Showing Mean for Period of Record and 3-Year Backward Moving Average.



Monthly Average, Maximum and Minimum Precipitation
Anaconda Station


WARM SPRINGS PONDS #2 - WET77
Total recoverable concentration in water
Detection Limits
Concentrations in Milligrams per liter
0.030
0.020
0.010
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
100.00
80.00
60.00
40.00
20.00
0.00
WARM SPRINGS #2 - WET77
▨ PPM IN SEDIMENT
☐ DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Sites
Warm Springs Ponds Area

Wetland: WARM SPRINGS POND #3 NEAR INLET	Site Code: WET78
7.5 Minute Quad: WARM SPRINGS	Lat: 46 8 25 Long: 112 46 40

Mean Annual Precipitation in Inches:	13.00
Mean Annual Potential Evaporation (Penman) in Inches:	33.00
'Net Precipitation' in Inches:	-20.00

Site has a mapped surface inlet.

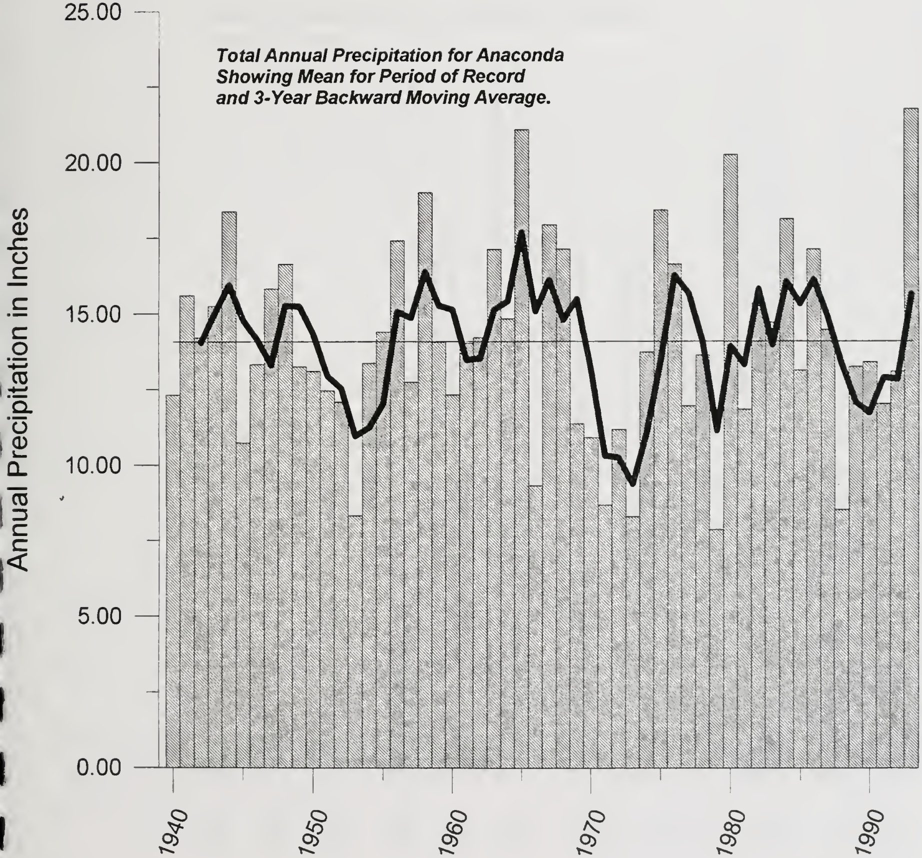
Site has a mapped surface outlet.

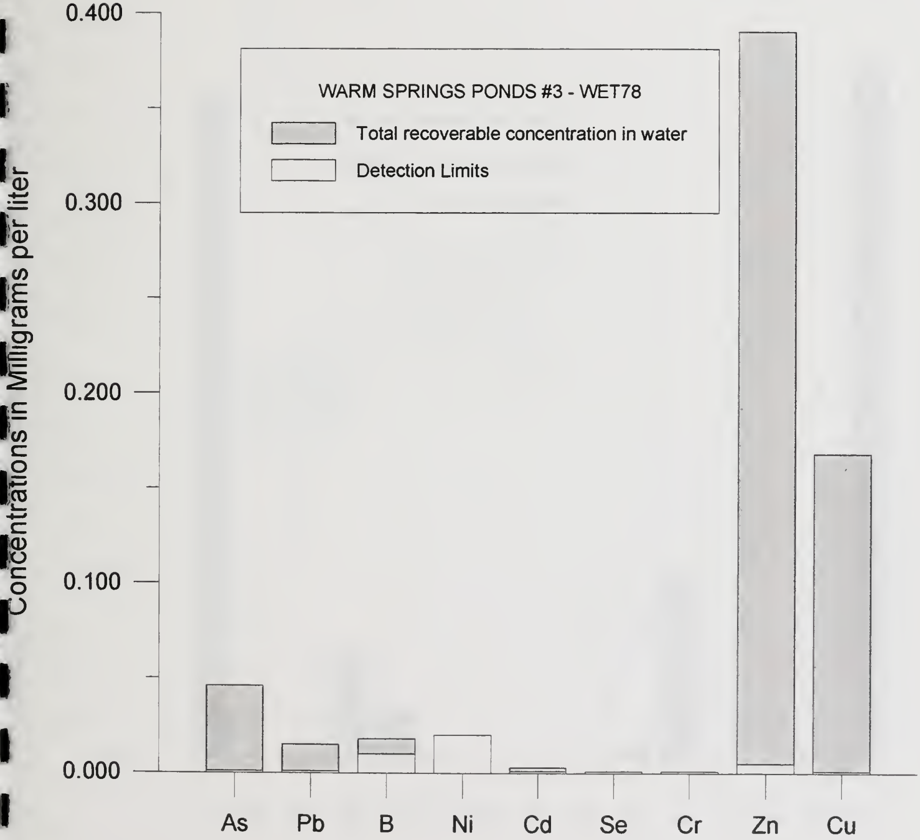
Site is artificially impounded.

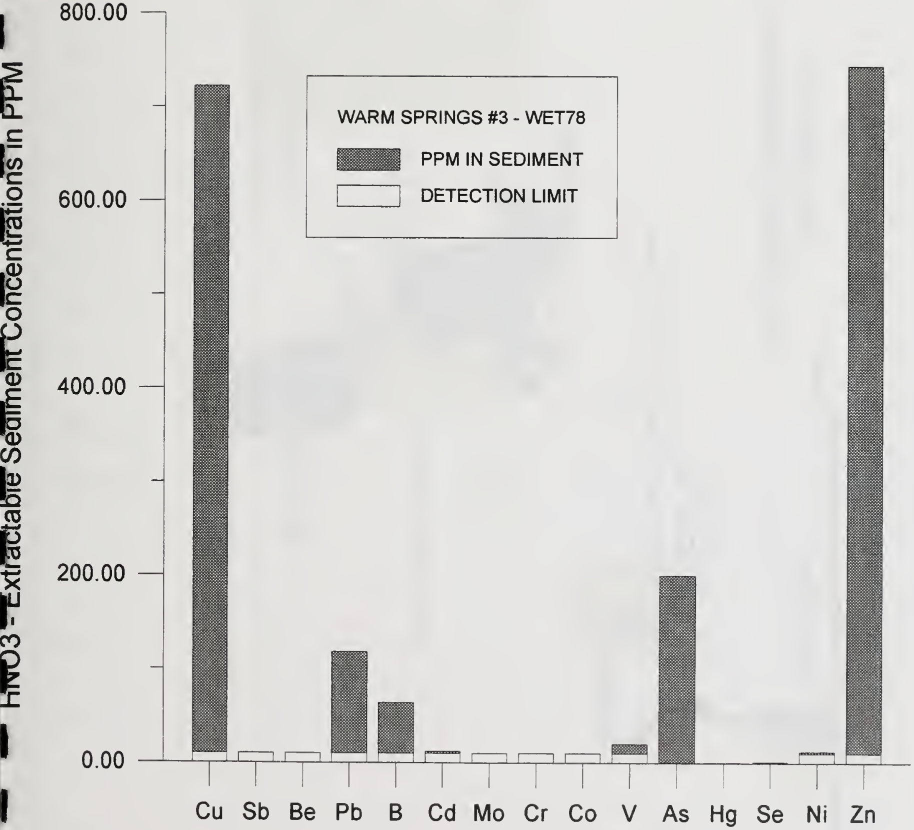
Site does not have known significant water imports.

Mapped area of wetland:	660 acres
Area of contributing drainage basin:	287800 acres
Mapped elevation of wetland surface:	4860 ft
Maximum elevation within drainage basin:	8237 ft
Net relief of contributing basin:	3377 ft

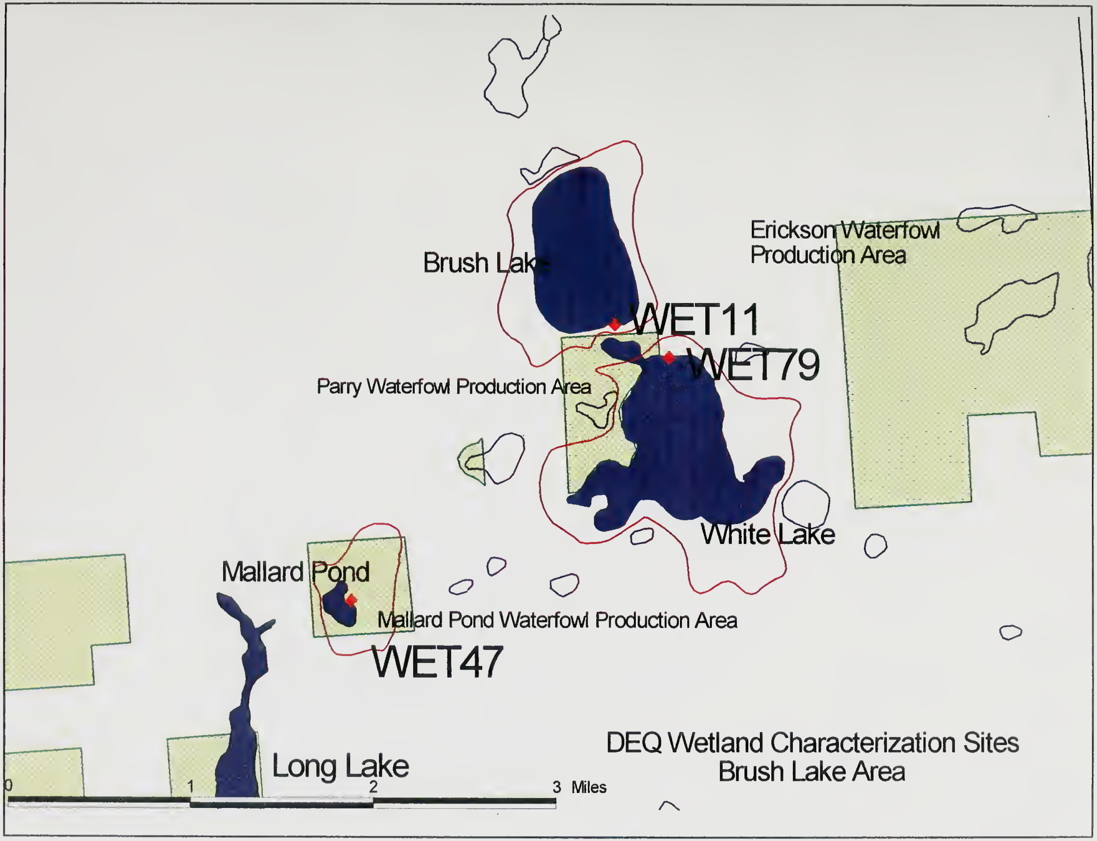
COE Hydrogeomorphic class:	RIVERINE
Primary surficial geologic unit	111MTLG
Primary bedrock geologic unit	120SDMS


25.00
20.00
15.00
10.00
5.00
0.00
Annual Precipitation in Inches
Total Annual Precipitation for Anaconda
Showing Mean for Period of Record
and 3-Year Backward Moving Average.
1940
1950
1960
1970
1980
1990


0.400
0.300
0.200
0.100
0.000
Concentrations in Milligrams per liter
WARM SPRINGS PONDS #3 - WET78
Total recoverable concentration in water
Detection Limits
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu



HNO3 - Extractable Sediment Concentrations in PPM
800.00
600.00
400.00
200.00
0.00
WARM SPRINGS #3 - WET78
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Sites
Brush Lake Area

Wetland: WHITE LAKE	Site Code: WET79
7.5 Minute Quad: BRUSH LAKE	Lat: 48 35 25 Long: 104 5 55

Mean Annual Precipitation in Inches:	13.00
Mean Annual Potential Evaporation (Penman) in Inches:	36.00
'Net Precipitation' in Inches:	-23.00

Site does not have a mapped surface inlet.

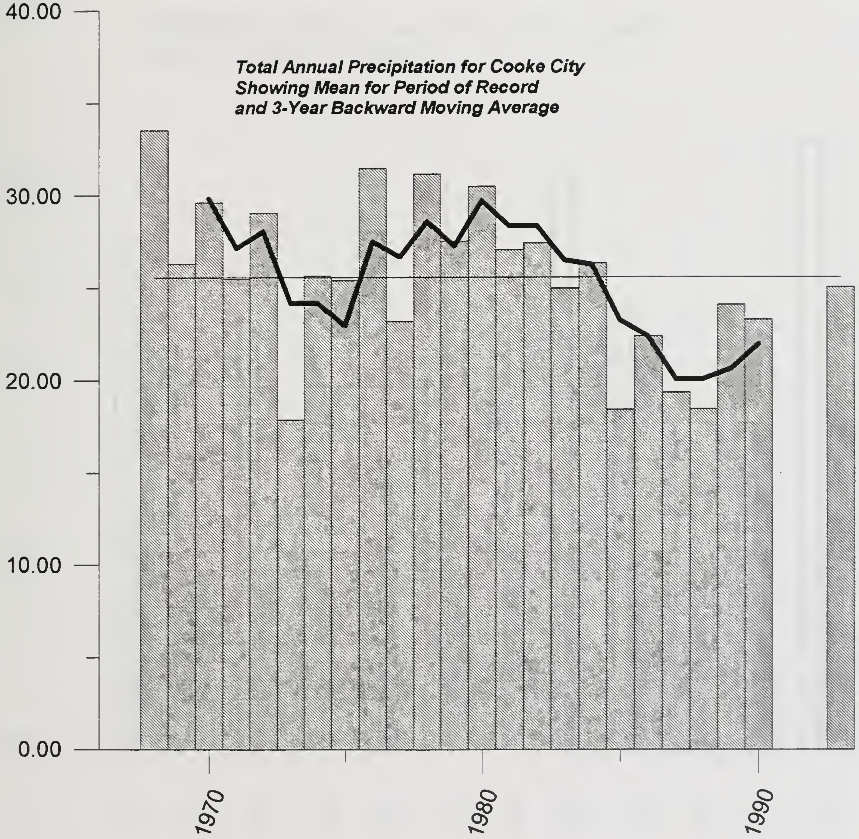
Site does not have a mapped surface outlet.

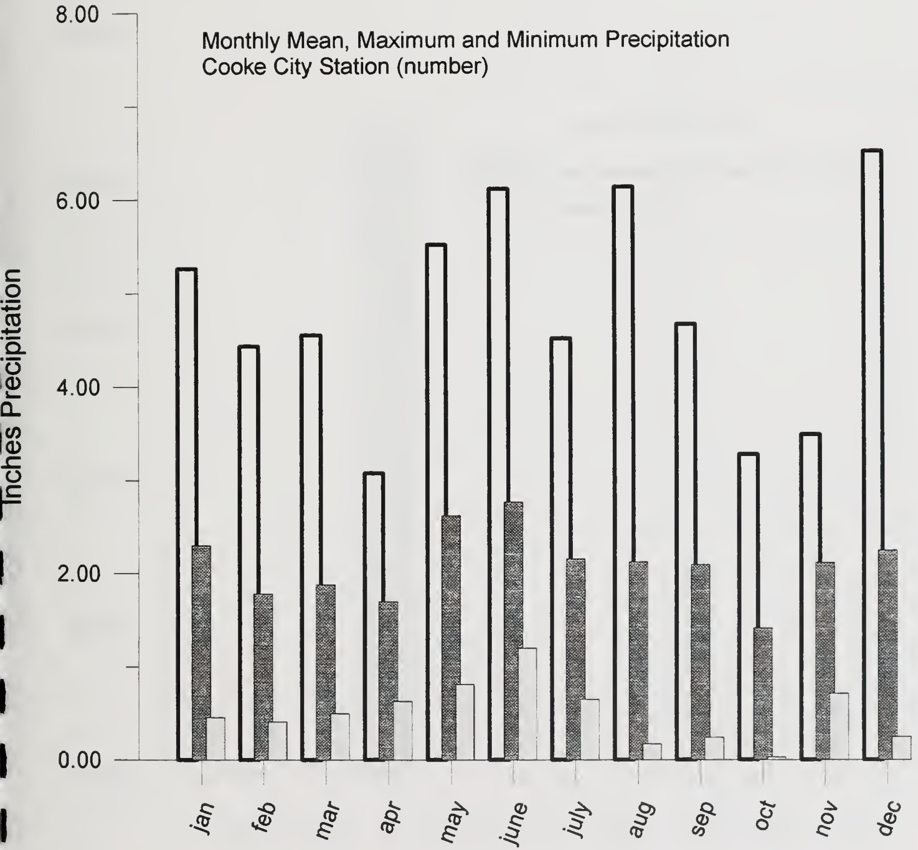
Site is not known to be artificially impounded.

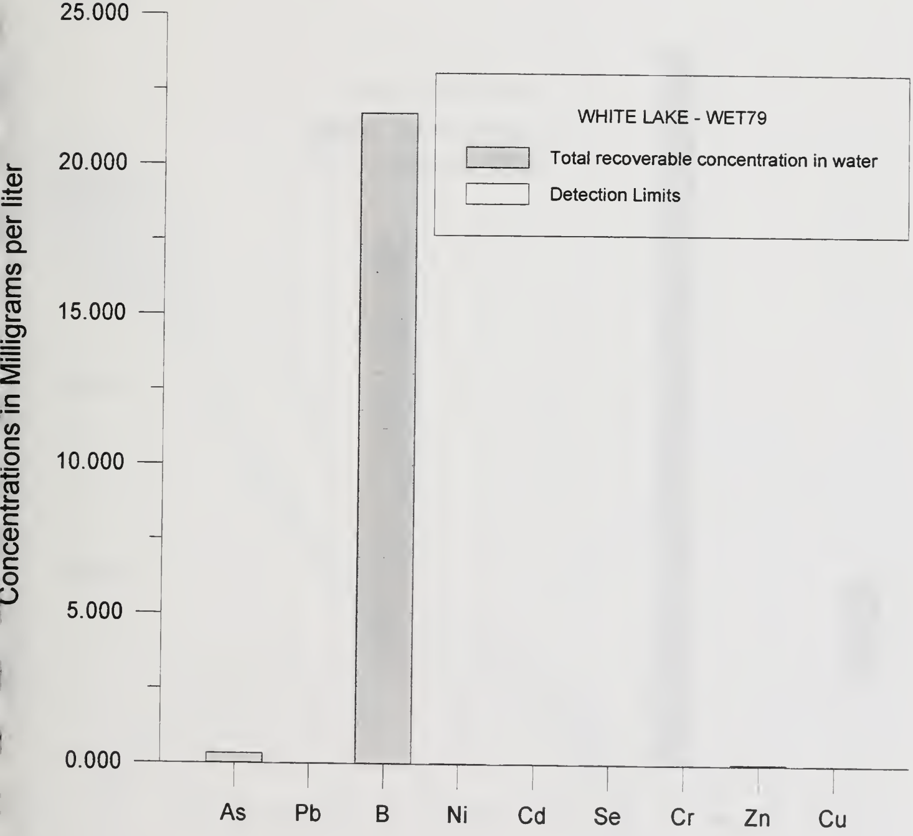
Site does not have known significant water imports.

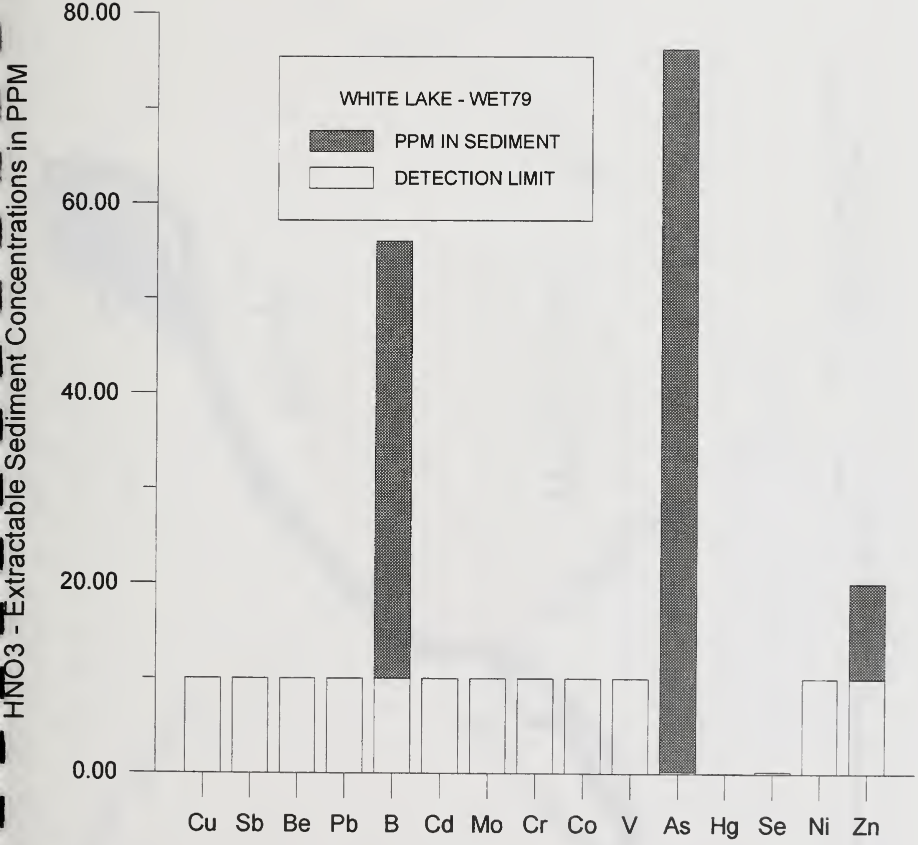
Mapped area of wetland:	355 acres
Area of contributing drainage basin:	760 acres
Mapped elevation of wetland surface:	1951 ft
Maximum elevation within drainage basin:	2022 ft
Net relief of contributing basin:	71 ft

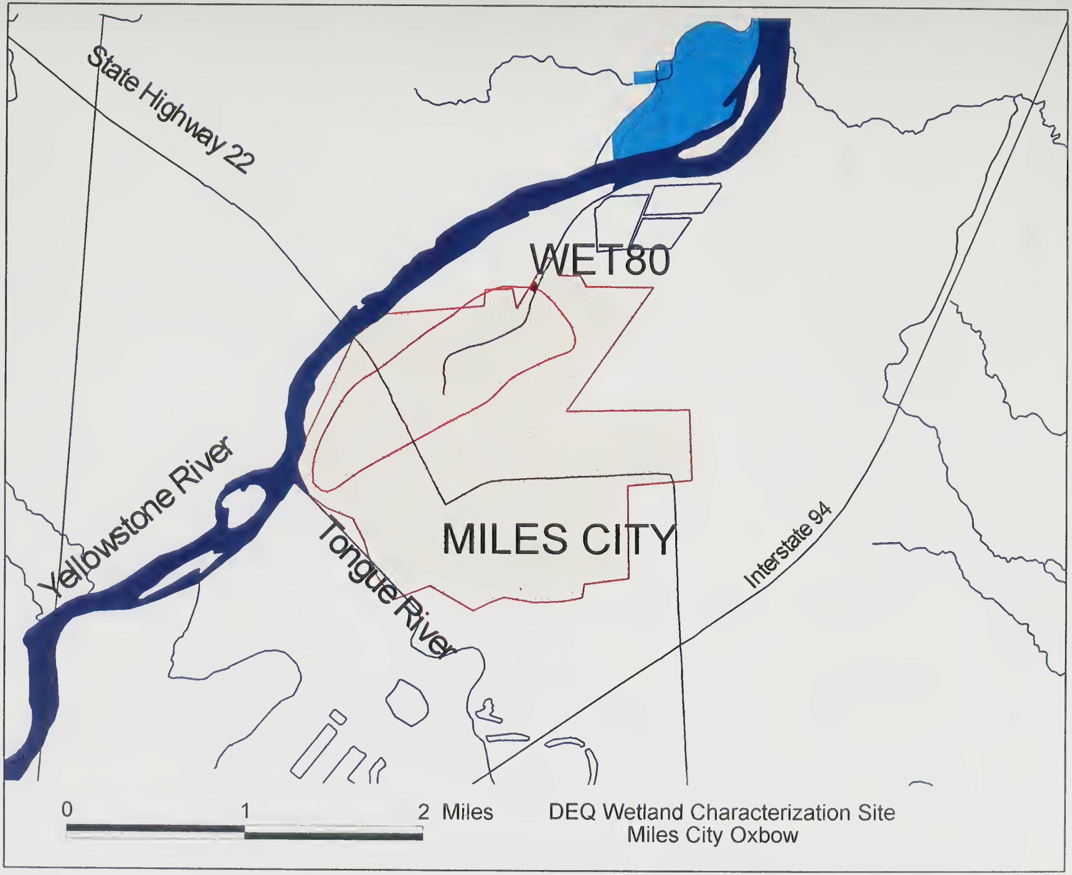
COE Hydrogeomorphic class:	DEPRESSIONAL
Primary surficial geologic unit	112GLCC
Primary bedrock geologic unit	125FRUN


Total Annual Precipitation for Cooke City
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
40.00
30.00
20.00
10.00
0.00
1970
1980
1990


Monthly Mean, Maximum and Minimum Precipitation
Cooke City Station (number)
Inches Precipitation
8.00
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


Concentrations in Milligrams per liter
25.000
20.000
15.000
10.000
5.000
0.000
WHITE LAKE - WET79
Total recoverable concentration in water
Detection Limits
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu

HNO3 - Extractable Sediment Concentrations in PPM
80.00
60.00
40.00
20.00
0.00
WHITE LAKE - WET79
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn



DEQ Wetland Characterization Site
Miles City Oxbow

Wetland: YELLOWSTONE RIVER OXBOW AT MILES CITY Site Code: WET80

7.5 Minute Quad: MILES CITY

Lat: 46 25 25
Long: 105 50 15

Mean Annual Precipitation in Inches: 13.00

Mean Annual Potential Evaporation (Penman) in Inches: 43.00

'Net Precipitation' in Inches: -30.00

Site has a mapped surface inlet.

Site has a mapped surface outlet.

Site is not known to be artificially impounded.

Site does not have known significant water imports.

Mapped area of wetland: 4 acres

Area of contributing drainage basin: 450 acres

Mapped elevation of wetland surface: 2338 ft

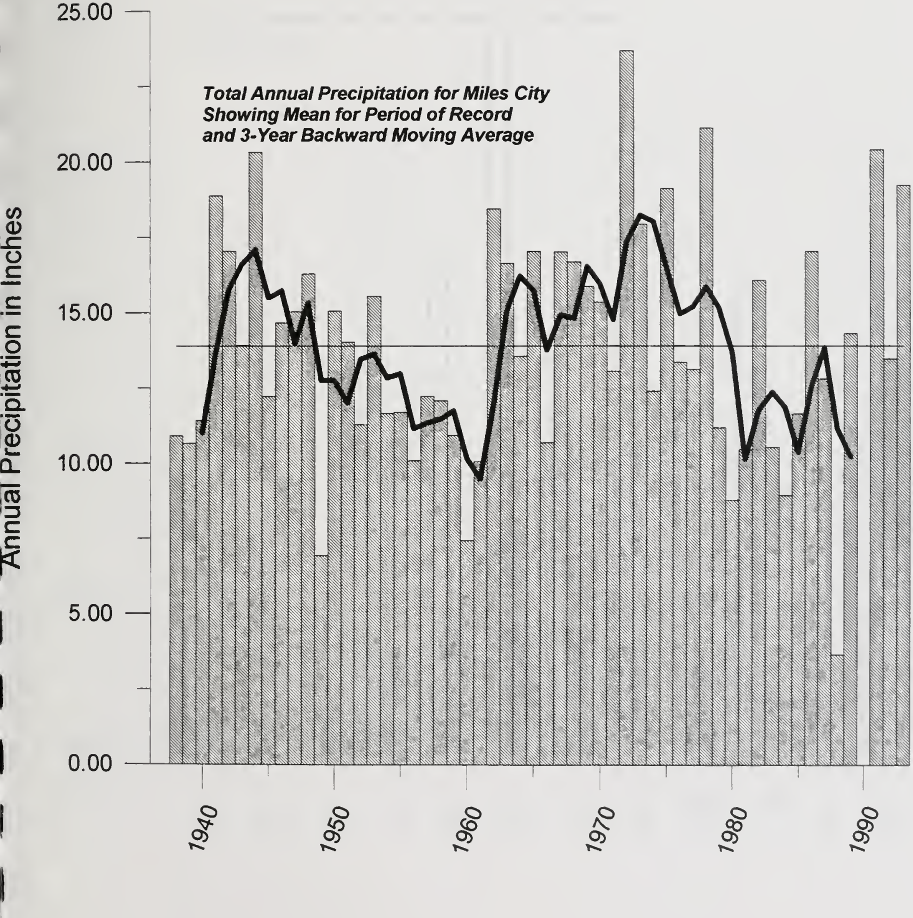
Maximum elevation within drainage basin: 2400 ft

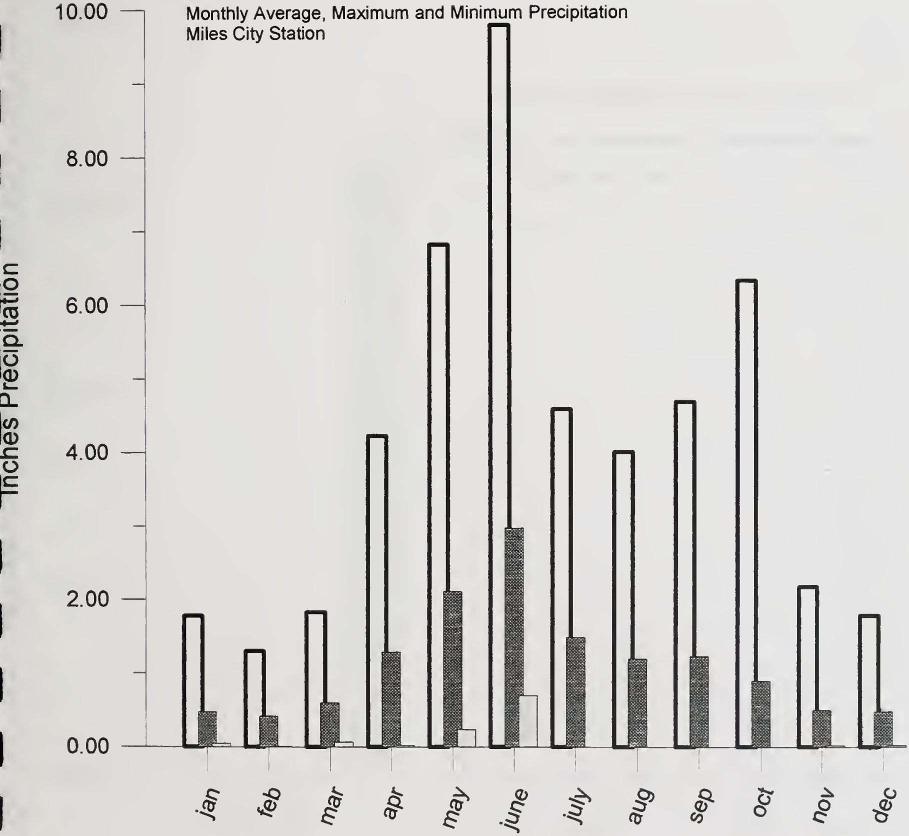
Net relief of contributing basin: 62 ft

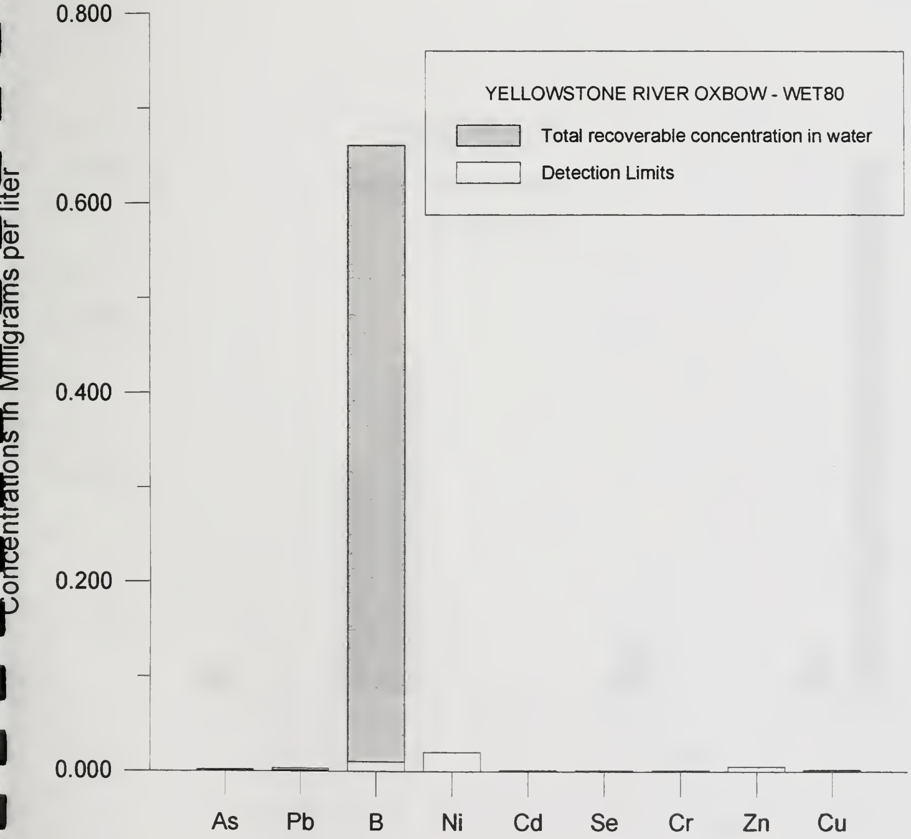
COE Hydrogeomorphic class: DEPRESSIONAL

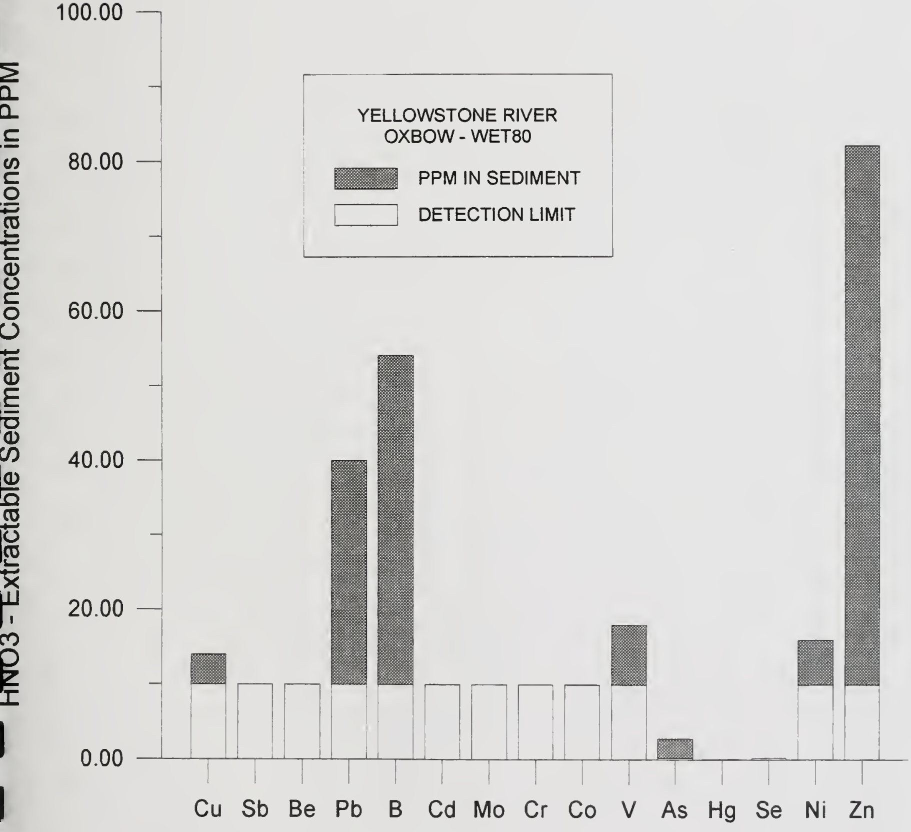
Primary surficial geologic unit 111ALVM

Primary bedrock geologic unit 125FRUN


Total Annual Precipitation for Miles City
Showing Mean for Period of Record
and 3-Year Backward Moving Average
Annual Precipitation in Inches
25.00
20.00
15.00
10.00
5.00
0.00
1940
1950
1960
1970
1980
1990


Monthly Average, Maximum and Minimum Precipitation
Miles City Station
Inches Precipitation
10.00
8.00
6.00
4.00
2.00
0.00
jan
feb
mar
apr
may
june
july
aug
sep
oct
nov
dec


YELLOWSTONE RIVER OXBOW - WET80
Total recoverable concentration in water
Detection Limits
Concentrations in Milligrams per liter
0.800
0.600
0.400
0.200
0.000
As
Pb
B
Ni
Cd
Se
Cr
Zn
Cu


HNO3 - Extractable Sediment Concentrations in PPM
100.00
80.00
60.00
40.00
20.00
0.00
YELLOWSTONE RIVER
OXBOW - WET80
PPM IN SEDIMENT
DETECTION LIMIT
Cu
Sb
Be
Pb
B
Cd
Mo
Cr
Co
V
As
Hg
Se
Ni
Zn